



# Course Catalog

## 2013-14



La Roche  
COLLEGE

Engaging Minds. Embracing the World.

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**A Disclaimer**

This publication is not to be viewed as an irrevocable contract between the College and the student and is subject to change consistent with policies of the Board of Trustees. The College reserves the right to repeal, change, amend, modify, add, withdraw the contents herein, without notice of obligation.

**Academic Standing Classification of Students**

At the end of each semester the Registrar classifies students according to the number of credit hours they have completed:

- A freshman is one who has completed fewer than 30 credits.
- A sophomore is one who has completed between 30 and 59 credits.
- A junior is one who has completed between 60 and 89 credits
- A senior is one who has completed 90 credits or more.
- A full-time student is one who is registered for 12 or more credit hours in a regular semester.
- A part-time student is one who is carrying less than 12 credit hours in a regular semester.
- A matriculated student is one who has satisfied all admission requirements for a degree program and is taking courses leading to a degree.
- A special student is one who is not pursuing a degree or certificate program at La Roche College. All special students are required to register each term through the Graduate Studies and Adult Education Office.

**Dean's List**

Each semester those full-time students (12 credits or more) who have earned a QPA of 3.500 or higher are placed on the dean's honor list. Part-time students who have accumulated 12 credits in consecutive semesters, including summer, and have earned a QPA of 3.500 or higher are placed on the dean's honor list.

**Good Academic Standing**

Students are in good academic standing at the college when their cumulative and semester quality point average is 2.000 or above.

**Not In Good Academic Standing**

Students are not in good academic standing at the college when their cumulative and/or semester quality point averages are below 2.000. Students not in good academic standing are required to work with a designated academic support advisor on strategies to enhance their academic performance. The Academic Standing Review Board carefully considers the individual circumstances of all students who are not in good standing and, at its discretion, may recommend that students not in good standing be subject to one of the following four categories of action: 1) Academic Warning; 2) Academic Probation; 3) Academic Suspension; or 4) Academic Dismissal.

**Academic Warning**

Students whose cumulative quality point averages (QPAs) are 2.000 or above but whose semester QPAs are below 2.000 may be placed on academic warning for the subsequent fall or spring semester.

Any student placed on academic warning is required to work with a designated support advisor on strategies to improve his or her academic performance.

**Academic Probation**

Full-time students whose cumulative quality point averages are below 2.000 (1.800 for freshmen), or who are subject to a second placement on academic warning, may be placed on academic probation for their subsequent fall or spring semester of enrollment.

Part-time students who have accumulated 12 credits attempted and whose cumulative quality point averages fall below 2.000 (1.800 for freshman) may be placed on academic probation for their subsequent fall or spring semester of enrollment.

Any student placed on academic probation is required to work with a designated academic support advisor on strategies to enhance his or her academic performance. Any student placed on academic probation may be restricted to no more than 13 credits for his or her subsequent fall or spring semester of enrollment, and may be subject to other conditions as required by the academic support advisor or the Academic Standing Review Board.

**Academic Suspension**

Any full-time student whose semester quality point average is below 1.000 or who is subject to a second placement on academic probation may be immediately suspended from the college for the subsequent spring or fall semester. Suspension decisions are made by the Academic Standing Review Board. Students who have been suspended will be assigned an academic support advisor with whom they will work to accomplish the prescribed strategies necessary for their reinstatement. Reinstatement of any student who has been suspended will be at the discretion of the Academic Standing Review Board based on consideration of the student's written request for reinstatement and of the academic support advisor's recommendations. Students reinstated from a suspension will remain on academic probation during the semester of their re-enrollment.

**Academic Dismissal**

Students may be dismissed from the college if they are subject to placement on academic probation for two consecutive semesters or fail to make progress after reinstatement to the college from suspension. Dismissal decisions are recommended by the Academic Standing Review Board to the Vice President for Academic Affairs and Academic Dean. The Academic Standing Review Board will carefully consider the student's total academic record prior to making a recommendation to dismiss.

**Appeal Policy and Procedure**

Students may appeal an academic suspension or academic dismissal by submitting a letter to the Vice President for Academic Affairs and

Academic Dean within ten days of receipt of notification.

### **Athletic Eligibility**

La Roche College recognizes that the development of students is not solely one of academic growth and that other activities contribute to the achievement of the goals set by the college in carrying out its mission with students.

Participation in varsity sports serves as an important function for participating students and also serves as a method of public relations, recruitment of students, visibility for the college and retention of students.

It is understood that academic growth of students has the highest priority. It is also understood that the college's membership in intercollegiate conferences or associations requires commitment to certain standards shared with other member schools.

To show concern for and to assure that academic growth is not impeded by participation in varsity athletics, certain restrictions are placed on student participation. These restrictions are intended for the student's guidance and assistance just as restrictions on students in general are imposed when academic growth is not satisfactory.

### **Policy**

No student will be permitted to participate in an intercollegiate sports program during the time that the student is ineligible according to the standards of the National Collegiate Athletic Association (NCAA) and La Roche College.

Athletic academic eligibility is defined as having a cumulative QPA of 1.800 in the student's first year (first two semesters) at La Roche College. Students must receive a cumulative QPA of 2.000 in the completion of the following six semesters. If a first year student earns a semester QPA of more than 1.500, but less than 1.800 in the first semester of attendance, that student may participate during the second semester under the following conditions:

1. The student, the academic advisor, the athletic director, and the coach agree to the participation.
2. The student carries no more than 12-13 credits in the semester.
3. A written contract is agreed to by the player, the academic advisor, and the coach, whereby the student adheres to a specific plan of study including regular involvement with the Academic Enrichment Center, tutoring if deemed advisable and continual reports and checks with instructors.
4. The contract so established will be filed with the athletic director prior to the first game of the new semester. Any student who is in his/her third through eighth semester and receives a semester QPA below 2.000 while still maintaining a cumulative QPA of 2.000 or above is athletically eligible to participate in intercollegiate athletics. In any case when a student-athlete is brought to the Academic Standards Review Board at La Roche College and the review board, in coordination with the athletic department, finds that it is in the student's best academic interest not to participate in an intercollegiate sport for a particular semester; that recommendation will be upheld to meet La Roche College's academic standards. Thus, a student who is academically eligible by the NCAA standards must comply with the more stringent standards of La Roche College, if applicable.

### **Biometric Signature Usage Policy**

**Purpose:** As required by Middle States Commission on Higher Education, to verify compliance with Federal Regulations requiring that institutions have effective procedures in place to ensure that the students who register in a distance or correspondence education course are the same students who participate in and complete the course, and receive the academic credit (34 CFR 602.17 (g)).

This policy is intended to reflect La Roche College's commitment to the principles, goals, and ideal described in the college's Mission Statement.

**Revision History:** New

**Persons Affected:** Faculty and students

**Policy:** A new federal policy to verify the identity of online students has been put into place by the U.S. Department of Education. In response to this policy, La Roche College is requiring that all students enrolled in courses where all or part of the graded activity is delivered online, to verify their identity with the student authentication system, Biometric Signature ID.

Biometric Signature ID, through their gesture biometrics technology, will ensure that La Roche College maintains the highest level of academic integrity in online learning.

Faculty teaching only face-to-face classes, with no online component, are not required to use BioSig-ID. However, if they use the LMS (Blackboard) as a supplemental classroom aid to allow students to submit assignments through the site, then the student identity verification through BioSig-ID will be required.

Every course syllabus should include the following paragraph:

### **Biometric Signature ID**

Online courses at La Roche College require students to participate in a new security system. This new software system is used to verify a student's ID using just your mouse, touchpad, stylus, or touch screen, and all courses which require taking an exam, quiz and/or any gradable assignment online will require student verification. No special hardware or software downloads are necessary. This identification technology is from a company called Biometric Signature ID (BSI). Verifying student identification is a new mandate from the federal government with which our institution needs to comply. Instructions to enroll can be found on the intranet in the Online Student Services page.

This new software system enables a student to easily verify their identity using a mouse, stylus, touchpad or touch screen and does not require any special hardware or software.

- Students will register and enroll ONE TIME ONLY to create a password in the first course of the session
- This same password will be used for all courses to access gradable events
- Students will be required to watch a short instructional video to understand “HOW” to use the gesture biometric technology
- Faculty will place the instructional video as a link with introductory remarks and as an assignment
  - <http://www.biosig-id.com/BSI-QI/BSI-QI.html>
- During the first contact into the course, and after viewing the video, the student will register and enroll using the link provided.

## PROCEDURES:

1. At the beginning of each semester, the student establishes a “password” using BioSig-ID in the first course in which they receive a BioSig-ID assignment. Returning students simply verify their identity using their existing password.
2. It is strongly suggested that faculty create an assignment (gradable event) where the students must authenticate their identity as suggested for any gradable event such as a test or assignment that is turned in remotely via Blackboard
3. The more times a student uses BioSig-ID, the more valid the authentication becomes and the less likely the student is to forget his or her BioSig-ID password.

## Definitions:

1. Biometric Signature ID – BioSig-ID
2. Learning Management System (LMS) - La Roche uses Blackboard as their learning management system.
3. Online course – Asynchronous online instruction delivered to a group of students or an individual student, without any face-to-face meeting requirement.
4. Online hybrid course – Blended classes with some face-to-face component, but where 51% to 99% of the direct instruction is online
5. On-campus course is delivered face-to-face, including those that use web-based technology to facilitate what is essentially a face-to-face course. This includes the use of Blackboard to post syllabus and assignments. An on-campus course requires less than 50% of that course to be offered online.

**Authority:** The Vice President for Academic Affairs and Academic Dean delegates the authority to implement and oversee this policy to the Online Learning and Faculty Support & Technology Coordinator.

**Continuous renewal:** This policy will be reviewed two years from its effective date to determine its effectiveness and appropriateness; or sooner to reflect substantive change.

Fall 2013

## Confidentiality of Student Records

### Notification of Rights Under the Family Educational Rights and Privacy Act

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. La Roche College respects the rights of all students and fully complies with FERPA. These rights are:

- **The right to inspect and review the student's education records within 15 days of the day the college receives a request for access.** Students should submit written requests identifying record(s) they wish to inspect to the Registrar. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained in the Registrar's Office, the student will be directed to the appropriate college administrator.
- **The right to request amendment of the student's education record.** Students may ask the college to amend a record that they believe is inaccurate or misleading. They should write to the college administrator responsible for the record, clearly identify the part of the record they want changed, and specify why it is inaccurate or misleading. If the administrator makes the decision not to amend the record as requested by the student, the student will be notified and advised of his or her right to a hearing.
- **The right to consent to disclosures of personally identifiable information** contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception which permits disclosure without consent is disclosure to school officials which legitimate educational interests. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility.
- A school official is a person employed by the College in an administrative, supervisory, academic, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the College has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee such as disciplinary or grievance or assisting another school official in performing his or her tasks (work study).

**The right to file a complaint with the U.S. Department of Education concerning alleged failures by La Roche College to comply with the requirements of FERPA.** The name and address of the office that administers FERPA is:

Family Policy Compliance Office

U.S. Department of Education

400 Maryland Avenue, SW

Washington, DC 20202-4605

In accordance with FERPA, La Roche College has designated the following information as "directory information," which may be made available upon request without the student's written permission:

- Student's name, address and phone number
- Date and place of birth
- Major field of study



- Participation in officially recognized activities or sports
- Weight, height and physical condition of members of athletic teams
- Dates of attendance
- Degrees and awards received, including Dean's List (not QPA)
- Student's photograph
- Most recent previous education agency or institution attended

This information may be routinely made public by the College unless the student informs the Registrar (CC224) in writing that any or all of the information designated should not be released without the student's prior consent.

### **Degree Requirements**

To qualify for a degree from La Roche, a student must:

1. Complete the core curriculum (see Core Curriculum).
2. Successfully earn a minimum of 120-132 credits and fulfill the residency requirement (must complete the last 30 credits at La Roche).
3. Select a major and complete the program of studies that meets the divisional requirements and the approval of his/her advisor.
4. Achieve a cumulative quality point average (QPA) of 2.000 or "C" and QPA of all courses required to complete the major except those majors where more than a 2.000 is required. In those instances, students must achieve the major QPA as stated in the college catalog.
5. Students must file a formal application for graduation by the deadline published in the academic calendar. A graduation fee is payable at that time. Forms may be obtained from the students' advisors, or on the Registrar's web page. The forms must be returned to the Registrar's Office in the College Center.

### **Developmental Courses**

The college recognizes that all students who possess a potential for success in a baccalaureate program begin their college careers with varied preparations. Some students require assistance in writing, English, reading, arithmetic and/or algebra before they are prepared to engage in college level study in these areas.

Through the college's placement testing program (see The Academic Program and Placement Tests) the college identifies students who require assistance in the above areas. Specific courses and their term of completion are assigned by the Assistant Dean for Academic Affairs, Academic & Career Advising in consultation with appropriate faculty. Developmental courses are required of students who do not achieve satisfactory levels on the academic course placement tests. A grade of C or higher is required to progress to college level courses. Developmental course credits apply toward a student's class standing and academic progress for financial aid purposes for all financial aid programs except the PHEAA grant program. Developmental course credits do NOT, however, apply toward college graduation credit requirements, nor may their grades be calculated toward Dean's List consideration.

The following are developmental courses:

- MATH0010 Basic Mathematics I
- MATH0015 Beginning Algebra
- ESLN0085-0120 English as a Second Language

### **Experiential Education Programs**

#### **Credit For Life Experience**

Credit for life experience may be earned for learning gained prior to enrollment at La Roche College. To earn credit for life experience, learning must relate directly to a course offered by La Roche and appear in the catalogue, with the exception of courses listed as internship, independent study or directed research. The total number of credits awarded for life experience may not exceed 30 and may not be included in the last 30 credits required for residency. Each division determines the number of credits awarded for life experience to be counted toward a major. Students should contact their advisor or the registrar for a description of each program, restrictions and procedures.

#### **Directed Research**

Directed research involves the student in the research process by actually engaging in research under the supervision of a qualified instructor. Directed research is an accelerated program of 2-4 credits per semester for upper class students in an academic major which establishes the prerequisites.

#### **Independent Study**

Independent study is an in-depth examination of a particular topic, under the supervision of a qualified instructor. Independent study is not a substitute for a formal course or graduation requirement. Independent study is an accelerated program of 1 to 3 credits per semester for upper-class students with a QPA of 2.5 or higher. Students may take up to a total of 6 credits of independent study.

#### **Internship**

As part of the academic curriculum, internships are available to students to provide an opportunity to apply formal theory and classroom learning to a field experience associated with their academic major. Juniors and/or seniors who have completed a minimum of 15 credits at La Roche College and 12 credits in their major may coordinate an internship with their academic advisor. Initial inquiries concerning internships should be directed to the Student Academic Support Services Office.

### **Grading System**

The college awards the following grades and assigns quality points on a 4-point per credit scale:

Grade	Points Per Credit	Quality Description
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A	4.000	Superior
A-	3.700	Outstanding
B+	3.300	
B	3.000	
B-	2.700	
C+	2.300	
C	2.000	Average
C-	1.700	
D+	1.300	
D	1.000	
D-	0.700	Minimal Passing
F	0	Failure
X	0	Incomplete
W	0	Withdrawal
P	0	Pass
NC	0	No Credit
AU	0	Audit
IP	0	In Progress
NR	0	Not Received
T	0	Transfer Credit

### Midterm Grade Policy

A grade at midterm is required for all freshman students both fall and spring semesters. In addition, faculty are required to report any earned "D" or "F" midterm grades for students other than freshmen.

### Incomplete Grade Policy

In exceptional cases, a student may request an incomplete grade "X" for a course. If approved by the instructor, the request for an incomplete will be submitted on the appropriate form to the Registrar's Office. In the event that the student does not complete the necessary work within six (6) weeks after the beginning of the next academic semester, the "X" grade will automatically become an "F" grade. Extension beyond six weeks may be granted by the faculty member in the most compelling circumstances. The faculty member must send an email to the Registrar for approval requesting this extension with a deadline date for required work. It is the responsibility of the faculty member to communicate this information to the student.

### Pass or No Credit

A student may register for one pass or no credit course each semester. Major, major elective courses, and college graduation requirement courses are not available for the pass or no credit option, except for internship courses. Individual departments will determine whether internship courses will be graded on a pass or no credit basis.

Application for the pass or no credit option may be obtained from the Registrar's Office. Signed applications must be submitted at the time of registration. This formal application is irrevocable after the last day to add. Since no quality points are assigned for a pass or no credit grade, the grade is not used in the calculation of the QPA.

### Placement Tests

Freshmen students are required to complete academic course placement tests prior to their first semester enrollment. Testing is required in three areas: writing, mathematics, and computer applications. Transfer students who have not or will not receive transfer credit for college writing I and/or college algebra must complete the appropriate placement tests prior to their first semester enrollment.

Students who do not achieve satisfactory levels on the placement tests are required to complete appropriate developmental courses. Specific courses and their term of completion are assigned by the Student Academic Support Services Office in consultation with appropriate faculty. Developmental course credits apply toward a student's class standing and academic progress for financial aid purposes. Developmental course credits do NOT, however, apply toward college graduation credit requirements, nor may their grades be calculated toward Dean's List consideration or calculated into a student's QPA.

### Repeated Course

A course may not be repeated more than twice without the approval of the student's academic advisor and department chair. When a course is repeated, the grades received in both the original course and the subsequent course will remain on the student's academic record. The higher of the two grades earned is included in the computation of the cumulative grade point average (GPA).

The repeated course must be the same in which the original grade was earned. In extenuating circumstances where a course is no longer offered, another course of similar content, verified by the chair of the department offering the course, may be approved as the replacement. If a course number or title changes, with no change in content, the new number and title will be accepted as the replacement.

Courses may not be repeated at any other institution and have that grade accepted as a replacement for the original grade earned at La Roche.

### Semester Credit Maximum

The average number of credits carried by full-time students is 12-15 hours each semester. Full-time tuition rate will be charged to students who take up to 17 credits. Students with a 3.00 QPA for the preceding semester and a 2.5 cumulative average may take more than 17 credit hours during a semester with approval of the student's academic advisor.

## **Student Evaluation**

During the last week of each semester each student confidentially and anonymously evaluates each course in which s/he is enrolled. The faculty use these evaluations as a guide in improving their teaching and advising.

## **Temporary Transfer**

Once a student is matriculated at La Roche College, no more than two courses, not to exceed 8 credits, may be taken and transferred from other colleges. Authorization to have these credits transferred to La Roche must be obtained in writing before enrolling at another college. Students may not transfer credits during their residency (the last 30 credits of their coursework). Students who have accumulated 60 credits may not transfer credits from a community college, a junior college, or other two year program. Only courses not available through La Roche may be taken at other institutions. In most cases, permission for temporary transfer will be granted for the summer semester only.

## **Transcripts**

All requests for official transcripts are obtain through an on-line system. A fee is charged for each official transcript requested. A transcript will not be released for any student who has not met their financial obligations to the college.

## **Transfer and Extramural Credits**

A student may transfer to La Roche College from other accredited colleges or universities. In such cases, only those credits transfer which: (1) are congruent with the academic programs of La Roche, and (2) the student received an A, B, or C grade. Credits are evaluated course-by-course by the Registrar. In all cases the academic departments at La Roche will have final determination on the evaluation of courses which satisfy major and/or department requirements. Transfer students may transfer credits toward their major at La Roche with the following limitations:

- Graphics, Design and Communication - individually determined by the department chair.
- Humanities - 9 credits in a major
- Sciences - 50% of the credits in a major
- Administration and Management - 39 credits in a major
- Social Sciences - 15 credits in a major

Transfer credits are not included in the computation of the QPA but are accepted toward a degree.

## **Withdrawal from the College**

If a student voluntarily withdraws from the college for any reason he/she must complete an exit survey and withdrawal on-line. This procedure must be followed by all students wishing to withdraw from La Roche including those taking La Roche classes at all campus locations or cross registered at other institutions. All refunds of tuition and fees are based on the official date of withdrawal. Failure to properly complete the withdrawal process may result in the loss of good standing.

## **Graduation Application Procedures**

Students who plan to graduate in December, May, or August must file a formal application for graduation by the deadline published in the academic calendar. Students will need to complete an on-line application for graduation, and meet with their advisor to confirm completion of graduation requirements. Graduation fee is due at time of completion of the application, this fee can be paid on-line, in the Registrar's Office or Student Accounts Office. Students will not be certified for graduation without filing an on-line application for graduation.

## **Academic Honors**

In order to recognize and encourage excellence in academic achievement, the college acknowledges at commencement those individuals who attain superior performance. Students may be graduated with college or major honors if they have completed at least 45 credits at La Roche. A student with a cumulative QPA as follows:

- QPA of 3.900 - 4.000 Summa Cum Laude (with highest honors)
- QPA of 3.750 - 3.899 Magna Cum Laude (with high honors)
- QPA of 3.500 - 3.749 Cum Laude (with honors)

Major honors are awarded by faculty as outlined for the honors program.

## **Registration**

A student is permitted to attend only those classes for which he or she is officially registered. New students are registered for classes prior to the beginning of their first semester. Returning students register on-line during mid-semester for the following term. Dates of registration are published in the academic calendar.

Credits will not be granted nor grades recorded on a transcript for any course for which a student is not officially registered.

Many advanced (upper level) courses have prerequisites as indicated in the catalogue. A student may not register for a course until he or she has met the prerequisites or unless the division chairperson or department chairperson grants permission in writing.

## **Adding or Dropping of Classes**

Classes may be added only during the scheduled add/drop period each semester; the last date to add a class is published in the academic calendar. Students are permitted to drop a class after the first week of classes each semester and the final date of the drop period is published in the academic calendar. Classes dropped after the first week of classes are included on the student's transcript and indicated by a withdraw "W" grade.

In order to add or drop a class, the proper form, obtainable in the Registrar's Office, must be submitted to the registrar with the appropriate signatures. An add/drop fee is required when adding and/or dropping a class after the scheduled deadline for each event. This fee is payable in the Registrar's Office.

Non-attendance does NOT constitute an official class drop. Failure to drop a class will result in an "F" grade on the student's transcript. Attendance does NOT constitute an official class add. Grades will not be issued nor recorded for a student who completes a class for which he/she is not officially registered.

### **Audit**

Students may audit courses. An audit signifies that the student will not be asked to meet the course requirements such as written assignments or examinations, but that he or she has the privilege of class attendance and participation. Formal application for this option must be made at the time of registration. The tuition for an audited course is identical to the tuition for degree status. No credits toward graduation can be earned for audited courses, and no grade can be given. One may not change from an audit to a regular credit basis once the add period has ended.

### **Class Attendance**

Each instructor is responsible for determining attendance requirements and informing students. Every student enrolled in a course is fully responsible for meeting the requirements stipulated by the instructor. In most cases class time will be integral to the thorough understanding and effective use of the subject matter of the course. A student who misses class may endanger his/her progress and seriously hinder successful completion of the course.

Prolonged absence from classes due to serious illness or emergency should be reported as soon as possible to the Student Academic Support Services Office. Such prolonged absence may necessitate a withdrawal from the course or courses in question.

### **Credit By Examination**

Instructor Prepared Challenge Examination affords students an opportunity to demonstrate that the knowledge associated with a particular course has already been gained. Challenge exams are not recommended for students unfamiliar with the subject area. With appropriate permission, matriculated La Roche students may take an instructor prepared Challenge Examination for a particular course. Students may challenge a course during residency only if he/she has or will have completed 30 credits of La Roche College class instruction. A maximum of 60 credits may be earned through credit by a Challenge Exam. Divisions determine and maintain both a list of courses available for challenge and restrictions on courses challenged during a student's residency. Normally, a course is challenged only during the semester in which it is offered. Students may not challenge a course which they have failed or retake a failed Challenge Exam. Additionally, students may not challenge a course for which they have registered after the last day of the add period.

Students must pay an application fee and complete the appropriate form, available from the Registrar's Office. Signatures from the instructor, the advisor & division chair or department chairperson are necessary. An additional per credit fee is required when credits are granted for the completed exam.

### **Standardized Examinations**

The college will award credit for the following standardized examinations: ACT/PEP, CLEP, DANTES, and Advanced Placement. A student can earn CLEP credit in the general examinations and the various subject examinations. The criteria used for awarding credit are the Recommendations Concerning Use of College Level Examination Program (CLEP) published annually by the American Council on Education. Each academic division determines if CLEP is applicable to their specific majors.

No standardized examinations are permitted during the student's residency.

On the AP Examinations for High School Standards, a score of 3 or 4 allows a student to waive a specific course and take the next higher level course. A score of 4 or 5 is needed, however, to receive college credit for the course.

### **Cross Registration**

Any full-time student may cross-register for one course each semester at any one of the Pittsburgh Council on Higher Education (PCHE) institutions, provided the course is open for cross-registration. The grade earned for a cross-registered course is calculated in the student's GPA. There is no PCHE cross-registration available in the summer or for intercessions. An authorized registration form must be approved by the advisor and the Registrar's Office. Forms are filed with the registrar of the host and home institutions before the deadline for such registration.

La Roche students should use the La Roche College tuition, refund, and add/drop policies any time they cross-register at another institution. However, students are responsible for paying for special course or laboratory fees to the host institution. For further information concerning cross-registration, contact the Registrar's Office.

Member colleges of PCHE, in addition to La Roche, are: Carlow, Carnegie Mellon, Chatham, Community College of Allegheny County, Duquesne, Pittsburgh Theological Seminary, Point Park, Robert Morris, and University of Pittsburgh. La Roche students having accumulated 60 credits are not permitted to register for courses at a community, junior college or other 2-year programs.

### **Tuition and Fees**

The following figures represent tuition and fees for the 2013-2014 academic year at La Roche College. If you have questions, please contact the Student Accounts Office at:

- PHONE: 412-536-1030
- FAX: 412-536-1075
- E-MAIL: [stuacct@laroche.edu](mailto:stuacct@laroche.edu)

***Note: Tuition and fees are subject to change without notice.***

## La Roche Academic Tuition & Fees

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### Tuition

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#### Undergraduate

ESL Class	\$ 210.00
Beginner ESL Class	\$ 245.00

#### Undergraduate (Full-Time)

Tuition per semester	\$12014.00
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#### Undergraduate (Part-Time)

Tuition per credit hour	\$ 610.00
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#### Graduate

Tuition per credit hour	\$ 640.00
Anesthesia Tuition per credit hour	\$ 650.00

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### Special Programs

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#### Undergraduate

RN-BSN, LEAD, Undergraduate Health Science (degree completion)-per credit/fees included.	\$ 610.00
Scholar (per class)	\$ 200.00
ASN Nursing PTI Test Fee (per semester)	\$ 45.00
SCIP	\$ 200.00
CPBP (Ballet)	\$ 450.00
BRIDGE (Summer Only)	\$ 99.00

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### Residence Fees

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Residence Hall key and damage deposit (non-refundable)	\$ 100.00
Providence Meal Plan per semester	\$1840.00
Red & White Meal Plan per semester	\$1660.00
Kettler Meal Plan per semester	\$1526.00
Bold Hall room charges	\$3172.00
Mahler/Peters/Schneider room charges	\$2804.00
Parking Fee for Resident Students (required only if you have a car)	\$ 100.00

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### Processing Fees

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Late Application Fee for Graduation	\$ 25.00
Reprint/Replacement Diploma	\$ 40.00
Late Registration Fee (after Registration Deadline)	\$ 100.00
Incomplete Grade Processing Fee	\$ 5.00
International Application Fee	\$ 50.00
Graduation Application Fee	\$ 85.00
Class Withdrawal Fee (After Add/Drop)	\$ 50.00
Insufficient Funds Returned Check	\$ 25.00
Official Transcript Copy	\$ 7.50
ESL Fee	\$ 60.00

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### Other Fees/Semester

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Student Support and Development	\$ 200.00
Curricular Support and Learning Technology Fee	\$ 175.00

*Note: Tuition and fees are subject to change without notice.*

## La Roche College

### Faculty

Abbott, Christine M., PHD	Professor
Adams, Rita, MAST	Adjunct Faculty
Adkins, Lucille A.	Adjunct Faculty
Agarwal, Neha, MFA	Assistant Professor
Al-Kamel, Aref Amen	Adjunct Faculty
Amorose, Susan M.	Adjunct Faculty
Andrew, Allan T.	Adjunct Faculty
Andreykovich, Lara C.	Adjunct Faculty
Archer, Lynn K., EDD	Professor
Arend, Lori J., LSW	Adjunct Faculty
Arnold, Jane P., MAST	Associate Professor
Arnold, John W.	Adjunct Faculty
Baktay, Christina S, MSN	Assistant Professor
Barnett, James	Adjunct Faculty
Barron, Maria A., PHD	Assistant Professor
Basil, Kelly	Adjunct Faculty
Bastyr, Mary_Jane	Adjunct Faculty
Bates, Thomas J., MA	Associate Professor
Bayer, Janine, PHD	Assistant Professor
Bellin, Joshua D., PHD	Professor
Bisbey, Michele E., CPH	Professor
Bischoff, Lisa	Adjunct Faculty
Blum, Jay P.	Adjunct Faculty
Bobinchock, Edward J, MA	Assistant Professor
Boerio, Victor A.	Adjunct Faculty
Bowers, Anne	Adjunct Faculty
Boynton, Eric	Adjunct Faculty
Bozym, Rebecca A., PHD	Assistant Professor
Brooks, Bernard L.	Adjunct Faculty
Buford, Michele Ayse	Adjunct Faculty
Burkholder, Benjamin	Adjunct Faculty
Butz, Margaret	Adjunct Faculty
Byers, Richard L.	Adjunct Faculty
Calva, Steve	Adjunct Faculty
Cararie, Gretchen S.	Adjunct Faculty
Caruso, Maria	Adjunct Faculty
Cercone, Sharon	Adjunct Faculty
Chapman, Pam, MSN	Assistant Professor
Cho, Shinil, PHD	Associate Professor
Clark, Richard M.	Adjunct Faculty
Collette, Nancy	Adjunct Faculty
Coltrane, Deborah K., RN	Adjunct Faculty
Colville, Robert J.	Adjunct Faculty
Connolly, Patrick Thomas, MA	Assistant Professor
Corso, Kirstie	Adjunct Faculty
Craciun, Georgiana	Assistant Professor
Crammond, Joanna	Adjunct Faculty
Dagnon, John M.	Adjunct Faculty
Davison, Deborah Ann	Adjunct Faculty
Dawson, Mark, CPA	Associate Professor
Day, David	Adjunct Faculty
Deem, Marie Tobia	Adjunct Faculty
Delgado, Miriam	Adjunct Faculty
DiCianna, Christopher	Adjunct Faculty
Doko, Gene E.	Adjunct Faculty
Fahrenholz, Karen Alissa	Adjunct Faculty
Falenski, Edward C.	Adjunct Faculty
Fatayer, Farideh	Adjunct Faculty
Fero, Paul G.	Adjunct Faculty
Float, John	Adjunct Faculty
Forrest, Joshua, PHD	Associate Professor
Forti, Jean C., PHD	Associate Professor
Fortier, Todd	Adjunct Faculty
Fraser, Kenneth	Adjunct Faculty
Frund, Zane Neil, PHD	Adjunct Faculty
Fujito, Don T., PHD	Professor
Gabriel, Evette Elizabeth	Adjunct Faculty

Ganni, Jessica	Adjunct Faculty
Garrett, Natasha	Adjunct Faculty
Gates, Janet, PHD	Professor
Gilardi, Ronald L.	Adjunct Faculty
Goss, Rachael D.	Adjunct Faculty
Grimes, Richard	Adjunct Faculty
Grubb, Sarah	Adjunct Faculty
Hall, Miranda J.	Assistant Professor
Hartle, Frank	Adjunct Faculty
Hartman, Phyllis G. „SPHR	Adjunct Faculty
Heacock, Nancy	Adjunct Faculty
Henne, Terrance R.	Adjunct Faculty
Herrington, Barbara E., PHD	Professor
Hillegass, Catelyn E	Adjunct Faculty
Hoffman, Joseph	Adjunct Faculty
Hooks, Hilary	Adjunct Faculty
Horton, William P.	Adjunct Faculty
Houston, Michael S.	Adjunct Faculty
Hutchison, Marc C.	Adjunct Faculty
Iannuzzi, Joseph R.	Adjunct Faculty
Illig, Stephanie L	Assistant Professor
Janzef, Shannon	Adjunct Faculty
Jaquay, Sherry	Adjunct Faculty
Joos, Irene R., PHD	Associate Professor
Jordan Platt, Linda, PHD	Professor
Kamphaus, Lisa A., MSIA	Assistant Professor
Kane, Deborah	Adjunct Faculty
Karger, Bruce A.	Adjunct Faculty
Kelleher, Adria	Adjunct Faculty
Kersten, Astrid L., PHD	Professor
Kim, Min A	Adjunct Faculty
Kleeman, Edward William, JR	Adjunct Faculty
Kreidler, Nicole Bieak, PHD	Associate Professor
Krzemien, Louis J., Jr.	Adjunct Faculty
Kurtz, Ronald J.	Adjunct Faculty
Kuttesch, Lois	Adjunct Faculty
Lampe, Lauren P., MFA	Professor
Lanasa, John	Adjunct Faculty
Lancz, Jennifer	Adjunct Faculty
Lang, Gregory M.	Adjunct Faculty
Latal, Mladen	Adjunct Faculty
Laux, Richard F.	Adjunct Faculty
Lawrey, Claudia	Adjunct Faculty
Le Blanc, Paul J., PHD	Professor
Leight, Robert R.	Adjunct Faculty
Lesic, Ursula Renee	Adjunct Faculty
Liberto, Terri L., MSN	Assistant Professor
Liddle, Helena F. G.	Adjunct Faculty
Likar, Lawrence, JD	Professor
Lindemann, Anthony	Adjunct Faculty
Lodge, Donald R.	Adjunct Faculty
MacQuarrie, Allan	Adjunct Faculty
Maher, Michelle B., PHD	Professor
Maliszewski, Stanley R.	Adjunct Faculty
Mangino, Matthew	Adjunct Faculty
Markowitz, Lee J., PHD	Assistant Professor
Martinelli, Rosemary	Adjunct Faculty
McBride, Robert K., PHD	Professor
McCauley, Leland M., II	Adjunct Faculty
McMahon, Diane	Adjunct Faculty
Merolillo, Timothy Michael	Adjunct Faculty
Metzger, Jacob Daniel	Adjunct Faculty
Miller, Philip L	Adjunct Faculty
Mitchell, Robert G., MA	Assistant Professor
Mohr, Eric	Adjunct Faculty
Moltz, Carol, PHD	Professor
Mozisek, Korryn D	Assistant Professor
Mueller, Sheila K., CPA	Assistant Professor
Muth, Dina	Adjunct Faculty
Nagar, Devvrat J., M.ED	Professor
Nellis, Deborah L.	Adjunct Faculty
Neutrelle, James	Adjunct Faculty

Nicholls, Mary Ann	Adjunct Faculty
O'Connell, William Terry	Adjunct Faculty
O'Connor, Barbara J., MSRT	Adjunct Faculty
O'Grady, Ryan	Assistant Professor
O'Neil, Gerard F.	Adjunct Faculty
Orr, Donald J., PHD	Professor
Overholt, Michael G.	Adjunct Faculty
Panzak, George	Assistant Professor
Parker, Kathleen	Adjunct Faculty
Powell, Trisha	Adjunct Faculty
Pschirer, Barbara Y.	Adjunct Faculty
Puglisi, Joseph J., MBA	Assistant Professor
Ranalli, Eileen M.	Adjunct Faculty
Ripepi-Diven, Maria C., MFA	Assistant Professor
Ritter, Jeffrey, PHD	Professor
Robertson, Linda L., PHD	Associate Professor
Rosenberg, Stanford H., PHD	Professor
Ross, Frank S.	Adjunct Faculty
Roulette, Lisa	Adjunct Faculty
Rowe, Gail E., PHD	Professor
Rugg, Natalie C.	Assistant Professor
Rushmore, William	Adjunct Faculty
Sanders, John Burt	Adjunct Faculty
Saville, Jacquelyn F.	Adjunct Faculty
Schiffgens, Scott	Adjunct Faculty
Schwartz, Eric D.	Adjunct Faculty
Seelhorst, Wayne	Adjunct Faculty
Seliman, Youssry Lotfalla	Adjunct Faculty
Semivan, Suzanne	Adjunct Faculty
Semple, Wesley S.	Adjunct Faculty
Shimko, Emily	Adjunct Faculty
Shirrell, Elizabeth	Assistant Professor
Silvis, Kathryn, EDD	Associate Professor
Sinopoli, Henry	Adjunct Faculty
Sipper, Mark	Adjunct Faculty
Slick, Joseph Thomas	Adjunct Faculty
Smith, Brian Thomas, PHD	Professor
Smith, Jessica Lynn	Adjunct Faculty
Snyder, Paul	Adjunct Faculty
Spangler, Katherine K.	Adjunct Faculty
Sproull, Frederick A., PHD	Associate Professor
Stahl, Charlotte J.	Adjunct Faculty
Stankowski, Edward, MFA	Associate Professor
Stover, Charles T.	Adjunct Faculty
Strickland, Harry B., PHD	Professor
Stumpf, Linda R., PHD	Assistant Professor
Sullivan, Kathleen A., PHD	Professor
Szak, Krisztina	Adjunct Faculty
Tajuddin, Azlan, PHD	Associate Professor
Timmerman, Kathleen D.	Adjunct Faculty
Torie, Christine M.	Adjunct Faculty
Traugh, Bethany L.	Adjunct Faculty
Vassar-Bush, Vannessa	Adjunct Faculty
Vincent, Anthony J.	Adjunct Faculty
Vrahas, Anastasia N.	Adjunct Faculty
Warren, John H.	Adjunct Faculty
Wee, John	Adjunct Faculty
Wehrheim, Nancy	Adjunct Faculty
Weida, Virginia	Adjunct Faculty
Werbaneth, James P.	Adjunct Faculty
Whitacre, Denise	Adjunct Faculty
White, Thomas E.	Adjunct Faculty
Whiteman, Leona, MAST	Adjunct Faculty
Whitlatch, Margaret A.	Adjunct Faculty
Wilf, Aaron M.	Adjunct Faculty
Winterhalter, Dana Jill	Adjunct Faculty
Wood, Sally Elizabeth	Adjunct Faculty
Yeasted, Rita Marie, PHD	Professor
Yingling, Gabrielle, M.ED	Adjunct Faculty
Young, Michael W., PHD	Adjunct Faculty
Zielen, Keith	Adjunct Faculty



## La Roche College

### Board of Trustees

The Board of Trustees of La Roche College is committed to the school's mission and to ensuring that adequate fiscal resources are available to realize that mission. The Board further affirms the teaching, research and service roles of higher education and the concomitant value of academic freedom in a free and democratic American society.

In particular, the Board affirms the value of a college education which promotes the development of civic responsibility and productive working members of society; the importance of the American enterprise system as the cornerstone of a strong and free economy; the strength of the Catholic heritage of the College and the need to educate for social justice; and the social goal of providing access to higher education for diverse citizens of the society.

The quality education and financial health of La Roche College depends to a large measure on the competence of those chosen to serve as trustees. Some of the skills the College seeks in trustees are: ability to raise and manage financial resources; knowledge of higher education; knowledge of local, state, and/or federal government; lobbying or political skills; knowledge of real estate and legal expertise. The Board seeks diversity of age; sex; educational, racial, ethnic and religious background; and social and political views.

Regular meetings of the Board are held in the months of February, May and October. The following are current Board members:

### Officers of the Board

Steven M. Massaro, <i>Chair</i>	Vice President, Business Development Massaro Corporation
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Kathryn A. Jolley, ASID, BS '81, <i>Vice Chair</i>	Principal DRS Architects, Inc.
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### Members of the Board

Sister Kathleen Angel, CDP, Ph.D. '68	Residence Director St. Clare's Villa, Alton, IL
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Godfrey Biravanga C.P.A. '01	Vice President & Audit Function Manager PNC Bank
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Lee Baierl	President Baierl Automotive
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Michael K. Bechtold, C.P.A.	Executive Vice President Brayman Construction Corporation
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Jesse C. Campayno	President/Owner Campayno Consulting Services, Inc.
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Hugo M. Churchill (Emeritus)	Gibsonia, PA
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Sister Mary Joan Coultas, CDP, Ph.D. (Emeritus)	Sisters of Divine Providence
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James A. Delligatti (Emeritus)	President Dell Management
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Joseph F. DiMario	Director of Planned Giving Diocese of Greensburg and Business Consultant
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Earnest J. Edwards (Emeritus/Retired)	Keswick, VA
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Mounzer R. Fatfat, Ph.D.	Regional Senior Advisor, U.S. Department of State Mercy Corporation
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Sister Maria Fest, CDP, D.A. '65	Assistant to the Provincial Sisters of Divine Providence
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Richard B. Fisher (Emeritus)	Chairman Federated Securities Corp.
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Sister Mary Francis Fletcher, CDP	Provincial Director Sisters of Divine Providence
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Robert I. Fragasso	Chairman & CEO Fragasso Financial Advisors
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Bradley J. Franc, Esq.	Partner Houston Harbaugh, P.C.
Jaime Getz '96	Vice President Federated Investors, Broker Dealer Sales
Ralph W. Gilbert	Business Development Manager Jacobs Engineering
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Richard G. Kotarba, Esq. (Emeritus)	Meyer, Unkovic & Scott, LLP
Kathleen Kozdemba	Allison Park, PA
Angela J. Longo, '89	Director Public Relations and Organizational Advancement Renewal, Inc.
Michael A. Mlinac '77	Chief Financial Officer University of North Texas Foundation, Inc.
Peter B. Mulloney (Emeritus)	Pittsburgh, PA
Evelyn Perrett	Cheswick, PA
David C. Peters	Consulting Engineer, Allison Park, PA
Teresa G. Petrick	Senior Vice President AAA East Central
Steven E. Pohl, BS '81	Vice President for Finance and Business Performance North America Novelis Inc. Atlanta, GA
Ambassador Anthony C.E. Quainton	Distinguished Diplomat in Residence American University Washington, DC
Susan Long Quainton	Retired International Educator Washington, DC
Robin Randall	Sewickley, PA
Susan L. Rauscher	Executive Director Catholic Charities of the Diocese of Pittsburgh, Inc.
Richard Roos (Emeritus)	Retired Oak Ridge, North Carolina
Sister Lydia Steele, CDP	Financial & Facilities Administrator Sacred Heart Elementary School Kingston, MA
Nicholas D. Varischetti, Esq.	Burns White LLC
Sister Inesita Velez Negron, CDP	Sisters of Divine Providence
Karen D. Watson, MBA, CFA, AIF	Senior Investment Consultant Gallagher Fiduciary Advisors, LLC

Karen Yoshino, Ph.D.

Director, Consulting  
Blackboard, Inc.  
Washington D.C.

Richard A. Zappala (Emeritus)

Chairman (Retired)  
First City Company

## La Roche College Core Curriculum

The Core Curriculum is the Liberal Arts foundation of a La Roche College education. As students progress through a diverse yet coordinated succession of Core courses, they are challenged to develop the fundamental proficiencies necessary for success in any field of study; to read, write, think, and act critically and creatively in diverse areas of intellectual inquiry; to explore within interdisciplinary settings the individual, local, and global contexts in which they live; and to develop standards of ethical belief and behavior in their academic and personal lives. As such, the Core prepares students to participate intellectually, ethically, creatively, and spiritually within their communities, professions, and world.

Upon successful completion of the Core, students are expected to demonstrate the following characteristics, in addition to the learning outcomes described for each component and the component courses of the curriculum.

- Competence in the fundamental activities necessary for success in any field of study.
- The power to pose academic questions in areas of intellectual inquiry outside the student's major field of study, and to draw on the principles, methodologies, and resources native to those areas in addressing these questions.
- The ability to recognize the complex, interdisciplinary nature of knowledge as it is generated in the world today, and the corresponding ability to approach issues from a variety of perspectives and with a variety of analytical tools.
- The imaginative capacity to conceptualize the interrelationships between local and global communities, and the moral capacity to act on that awareness to further freedom, peace, justice, and well-being for all the world's people.
- The conviction that academic study is infused with ethical choices and concerns, and the courage to promote ethical beliefs and behavior in their academic and personal lives.

The La Roche College Core Curriculum consists of the following components:

- The La Roche Experience
- Fundamental Skills
- Select Courses
- Community & Global Courses

Specific learning outcomes for each component of the Core Curriculum can be found here. (Core Curriculum Learning Outcomes)

**I. The La Roche Experience (4 credits)** – The La Roche Experience is composed of four 1-credit courses taken over four semesters. The course emphasizes the history of La Roche College and introduces students to issues in Diversity and Discrimination, Regions of Conflict, and Economic Justice.

**II. Fundamental Skills (12 credits)** - These courses provide a foundation of skills for lifelong learning, including writing, mathematics, analytical thinking, problem solving, computer applications, information literacy, and basic knowledge of a foreign language. Students may test out of these requirements. Those who test out of a fundamental course can use the credits for electives.

ENGL1011 - College Writing: Exposition I

ENGL1011L – College Writing: Exposition I Lab

ENGL1012 - College Writing: Exposition II

MATH1010/A – College Algebra (minimum math requirement for credit toward degree)

ISTC1005 - Practical Computer Applications

**III. Select Courses** - These courses emphasize broad-based, liberal education and challenge students to explore the principles, methodologies, and resources within areas of intellectual inquiry outside their major field of study. Twelve (12) – eighteen (18) credits are required, including study within each of the following domains:

History  
Science  
Literature  
Social and Cultural Systems  
Religion or Philosophy  
Aesthetics

Students can fulfill six domains with four courses because: 1) some courses may investigate two domains and will thus carry more than one domain designation; 2) students may fulfill a domain requirement through courses taken in their major, e.g., a literature major would necessarily have "in-depth study of the principles" of literature.

**Community Courses and Global Courses (6 credits): effective for new students entering in Fall 2008.**

COMM - Community

GLBL - Global

These courses emphasize the integration of knowledge and the interconnections between the local and the global. Students are required to take one Community course and one Global course. These courses should be taken in sequence, with the Global course taken after the Community course.

Students entering La Roche College before Fall 2008 fall under the Integrative 100-level, 200-level, and 300-level course sequence for a total of 9 credits of integrative experience course work. Refer to the previous catalog for descriptions of this requirement.

**Core Curriculum****Community**

COMM4003	Making Community in Antebellum America
COMM4009	Media & Democracy
COMM4013	Rule of Law
COMM4020	Social Communities in 20th Century
COMM4021	Land & Community in Native America
COMM4021H	Land & Community in Native America-Honors
COMM4036	Virtual Communities & Social Media
COMM4038	The Creative Process
COMM4040	Surviving Economically in the Community

**Global**

GLBL4005	Why We Fight: Historical Conflict in Fact, Fiction & Film
GLBL4007	Internet, Communication & Development
GLBL4011	Crime & Terror: A Global Perspective
GLBL4011H	Crime, Terror & The Environment: A Global Perspective-Honors
GLBL4015	Early Canadian History & Tales
GLBL4017	Diseases That Changed The World
GLBL4025	Women Across Cultures
GLBL4027	Global Justice & Human Rights Historical, Political & Social-Economic Perspectives
GLBL4029	Global Adornment
GLBL4033	Literacy, Culture and Education
GLBL4045	Moral of the Story

**Select Aesthetics**

SLAE1001	Art in Everyday Life
SLAE1002	Intro to Art
SLAE1003	Digital Fine Arts
SLAE1004	Intro to Dance Literacy
SLAE1006	The Aesthetics of Color
SLAE1007	Music Appreciation I: Classical Music for Those Who Hate Classical Music
SLAE1008	Women's 4-Part a capella Performance
SLAE1009	Music Appreciation II: Jazz Overview - America's First Cool Music
SLAE1010	Creative Dramatics
SLAE1011	History of Rock & Roll: Special Topics
SLAE1012	Fundamentals of Music
SLAE1097	History of Musical Theater

**Select Dual Domain**

SLDD1001	Coming of Age: Film & Literature
SLDD1002	Fantasy: Film & Literature
SLDD1003	Mystery: Film & Literature
SLDD1004	Writing & Singing the Blues: African-American Lit & Music
SLDD1005	The Bible as Literature
SLDD1006	Jesus in Film & History

**Select History**

SLHS1001	Major Issues in Modern U.S. History
SLHS1002	Multicultural History of the U.S.
SLHS1002H	Multicultural History of the U.S.-Honors
SLHS1003	History of the World

**Select Literature**

SLLT1001	Sing & Praise: Contemporary Poetry
SLLT1002	World Literature I
SLLT1003	Shakespeare on Film
SLLT1005	This Great Game: Lit & Baseball
SLLT1006	The Fantastical in Literature & Film
SLLT1007	The Fire & the Rose: Religious World Poetry
SLLT1008	Contemporary Literature
SLLT1009	Literature of the Environment

SLLT1010	World Literature II
SLLT1011	Issues in American Literature II
SLLT1012	Special Topics in Literature
SLLT1013	Issues in American Literature I
SLLT1014	Comic Books & Graphic Narrative
SLLT1015	Studies in Literature

#### **Select Religion**

SLRS1002	World Views & Identity
SLRS1003	World Religions
SLRS1005	Christology
SLRS1006	Old Testament
SLRS1008	Parables as Literature
SLRS1009	Literature of the Gospels
SLRS1011	New Testament
SLRS1012	Intro to Philosophy
SLRS1013	Ethics
SLRS1014	Women & Religion

#### **Select Science**

SLSC1001	Intro to Chemistry: Braving the Elements
SLSC1002	Intro to Biology: Bugs & Brew
SLSC1003	Intro to Human Body: Systems That Move You
SLSC1005	Introduction to Computer Science: Bits, Bytes and Beyond.
SLSC1006	Introduction to Physical Science: Motion, Matter and Mind
SLSC1007	CSI: Chemistry : Chemical Principles in Criminalistics
SLSC1008	Principles of Chemistry I
SLSC1009	Intro to Biology: CSI
SLSC1010	The Natural Sciences
SLSC1011	Life Science
SLSC1012	Introduction to Computer Science

#### **Select Social / Cultural**

SLSO1002	International Justice Systems
SLSO1004	Race & Ethnicity
SLSO1006	Race, Class & Gender: Introduction to Sociology
SLSO1007	Global Social Problems
SLSO1008	Human Communication

**Business Division****Programs of Study****Majors**

Accounting	BS
Accounting 4+1	Other
Finance	BS
Information Technology	BS
International Affairs	BA
International Management	BS
Leadership	BS
Management	BS
Management Information Systems	BS
Marketing	BS
Medical Imaging	BA

**Minors**

Accounting Minor	Other
Finance Minor	Other
Information Technology Minor	Other
Management Information Systems Minor	Other
Management Minor	Other
Marketing Minor	Other
Web Design and Development	Other

**Certificate Programs**

Accounting Certificate	Certificate
Administration Certificate Program	Certificate
Consulting for Organizational Learning, Development and Change	Certificate
Contemporary Concepts in Human Resources Management	Certificate
Financial Aspects of Human Resources Management	Certificate
HR Professional	Certificate
Human Resources Generalist	Certificate
Human Resources Information Systems and Technology	Certificate
Legal Aspects of Human Resources Management	Certificate
Managing Information Technology and Change	Certificate

**Graduate Programs**

Master of Science in Accounting	MS
Master of Science in Human Resources Management	MS

**Detail - Business Division****Accounting**

[Accounting Department Website](#)

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The major in accounting is designed to give students a comprehensive treatment of current accounting principles and practices. The main goals of the program are to prepare students for professional careers in accounting and to aid them in meeting the education requirements for the Pennsylvania CPA and CMA certifications. The program also provides preparation for graduate study in accounting, business or public administration. Accounting courses give students ample opportunity to achieve a degree of proficiency in accounting skills and analytical techniques. To complete the accounting major successfully, the following course work is required:

- 48 credits in Business Core Requirements
- 21 credits in Accounting Major Requirements

- 6 credits in Accounting Major Electives
- 9 credits in Skills Components
- 34 credits in CORE Curriculum

#### **Accounting Major Requirements: 21 credits**

Taxation I	ACCT3001
Taxation II	ACCT3002
Intermediate Accounting I	ACCT3011
Intermediate Accounting II	ACCT3012
Cost Accounting	ACCT3014
Advanced Accounting	ACCT4001
Auditing	ACCT4002

#### **Business Core Requirements: 48 credits**

Accounting I	ACCT2003
Accounting II	ACCT2004
Managerial Accounting	ACCT2013
Macroeconomics	ADMG1005
Microeconomics	ADMG1006
Fundamentals of Management	ADMG1018
Business Law I	ADMG2009
Organizational Behavior	ADMG2018
Human Resources Administration	ADMG2025
Operations Management	ADMG4020
Seminar-Business Policy	ADMG4055
Financial Management	FINC3032
Financial Institutions	FINC3036
International Business Management	INMT3039
Practical Computer Applications	ISTC1005
Marketing Management	MRKT2021

#### **Major Electives: 6 credits**

Accounting with Computers	ACCT2025
Accounting Internship I	ACCT4051
Accounting Internship II	ACCT4052
Business Law II	ADMG2010
Business Organization & Regulation	ADMG3010
Investments	FINC3031
Commercial Bank Management	FINC3034
Managerial Finance	FINC4033
International Finance	INMT4046
International Legal Environment	INMT4048
Advanced Practical Computer Applications	ISTC1006
Management Of Information Systems	ISTC2021
Data Base Management Systems	ISTC2045
Distributed Data Processing	ISTC2050

#### **Skills Component Requirements: 9 credits**

Professional Presentations	ADMG3024
Calculus for Business, Economics, and Managerial Sciences	MATH1030
Probability and Statistics	MATH1040

#### **Accounting 4+1**

The 4+1 program was established to create a seamless transition from undergraduate to graduate study. The Master of Science in Accounting offers an advanced level of study in various, specific topics in the accounting profession that do not typically appear in the undergraduate level. Students enrolled in the program will be able to further their professional careers with the knowledge gained from these advanced level courses. Students' successful completion of this program will meet the 150 hour CPA certification requirement.

To successfully complete the Accounting 4+1 major, the following coursework is required:



- 48 credits listed under Business Core (major component)
- 21 credits of Major Requirements
- 6 credits of Major Electives
- 9 credits of Skills Component
- 34 CORE credits
- General Elective credits if needed
- 30 Master's Level Credits
- A minimum of 150 credits are required for degree, the last 30 of which must be earned at La Roche College. (Developmental course work does not count toward the minimum number of credits required for graduation)

Accounting I	ACCT2003
Accounting II	ACCT2004
Managerial Accounting	ACCT2013
Accounting with Computers	ACCT2025
Taxation I	ACCT3001
Taxation II	ACCT3002
Intermediate Accounting I	ACCT3011
Intermediate Accounting II	ACCT3012
Cost Accounting	ACCT3014
Advanced Accounting	ACCT4001
Auditing	ACCT4002
Accounting Internship I	ACCT4051
Accounting Internship II	ACCT4052
Ethics & Professional Responsibilities in Accounting	ACCT5020
Modern Accounting Information Systems	ACCT5035
The Business of Reading & Writing	ACCT5040
Fraud Examination	ACCT5050
Advanced Forensic Accounting	ACCT6020
Wealth Management	ACCT6050
Accounting for Not-for-Profit Entities	ACCT6060
Contemporary Issues in Taxation	ACCT6080
International Accounting	ACCT6085
Applied Research	ACCT6099
Macroeconomics	ADMG1005
Microeconomics	ADMG1006
Fundamentals of Management	ADMG1018
Business Law I	ADMG2009
Business Law II	ADMG2010
Organizational Behavior	ADMG2018
Human Resources Administration	ADMG2025
Business Organization & Regulation	ADMG3010
Professional Presentations	ADMG3024
Operations Management	ADMG4020
Seminar-Business Policy	ADMG4055
Investments	FINC3031
Financial Management	FINC3032
Commercial Bank Management	FINC3034
Financial Institutions	FINC3036
Managerial Finance	FINC4033
International Business Management	INMT3039
International Finance	INMT4046
International Legal Environment	INMT4048
Practical Computer Applications	ISTC1005
Advanced Practical Computer Applications	ISTC1006
Management Of Information Systems	ISTC2021
Data Base Management Systems	ISTC2045
Distributed Data Processing	ISTC2050
Calculus for Business, Economics, and Managerial Sciences	MATH1030
Probability and Statistics	MATH1040

**Finance**

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The central objectives of the major in finance are to develop students' critical and analytical skills and to enable them to apply these skills effectively in identifying and solving problems in the area of finance. A second program objective is to foster within the student awareness of values and moral issues in modern finance.

To successfully complete the Finance Degree, a minimum of 120 credits are required, the last 30 of which must be earned at La Roche College. The following coursework is required:

- 48 credits of Business Core Requirements
- 15 credits of Finance Major Requirements
- 12 credits of Finance Major Electives
- 9 credits of Skills Components
- 34 credits of CORE Curriculum courses

**Business Core Requirements: 48 credits**

Accounting I	ACCT2003
Accounting II	ACCT2004
Managerial Accounting	ACCT2013
Macroeconomics	ADMG1005
Microeconomics	ADMG1006
Fundamentals of Management	ADMG1018
Business Law I	ADMG2009
Organizational Behavior	ADMG2018
Human Resources Administration	ADMG2025
Operations Management	ADMG4020
Seminar-Business Policy	ADMG4055
Financial Management	FINC3032
Financial Institutions	FINC3036
International Business Management	INMT3039
Practical Computer Applications	ISTC1005
Marketing Management	MRKT2021

**Finance Major Electives: 12 credits**

Taxation II	ACCT3002
Business Law II	ADMG2010
Business Organization & Regulation	ADMG3010
Risk Management & Insurance	FINC3040
Real Estate Investment	FINC4039
Management Of Information Systems	ISTC2021
Networking	ISTC2030
Systems Analysis and Design	ISTC4042
Probability and Statistics II	MATH3045

**Finance Major Requirements: 15 credits**

Taxation I	ACCT3001
Investments	FINC3031
Commercial Bank Management	FINC3034
Managerial Finance	FINC4033
International Finance	INMT4046

**Skills Component Requirements: 9 credits**

Professional Presentations	ADMG3024
Calculus for Business, Economics, and Managerial Sciences	MATH1030
Probability and Statistics	MATH1040

**Information Technology**

This major prepares students for employment in a wide range of technical computer-based occupations ranging from networking to database administration, help desk solutions, and web administration.

To successfully complete the Information Technology Major, the following coursework is required:

- 54 credits of IT Major Requirements
- 18-21 credits to secure a minor

Note that all IT majors are required to take a minor. MIS (Management Information Systems) is not available as a minor for these purposes.

- 45-48 credits of CORE Curriculum courses and General Electives as required to reach 120.

A minimum of 120 credits is required for completion of degree, the last 30 of which must be completed at La Roche College.

*Note: The IT program is not structured to be a part of La Roche College's undergraduate business programs and therefore is not included in its ACBSP accreditation.*

#### **IT Elective: Select 1**

Distributed Data Processing	ISTC2050
Web Page Usability & Programming	ISTC3008
Computer Programming: COBOL	ISTC3020
Scripting for the Web	ISTC3028
Advanced Networking & Telecom	ISTC3031

#### **IT Major Requirements: 54 credits**

Technical Writing	ENGL2030
Problem Solving	ISTC1021
Computer Hardware	ISTC1025
IST: A Global Perspective	ISTC2005
Introduction to Cyberspace	ISTC2008
Management Of Information Systems	ISTC2021
Computer-Based Training & DL	ISTC2025
Networking	ISTC2030
Data Base Management Systems	ISTC2045
Advanced Computer Hardware	ISTC3000
Legal Issues and Info Tech	ISTC3005
Human Computer Interaction	ISTC3015
Linux	ISTC3030
Computer Programming in Java	ISTC3034
Advanced Data Base Management Concepts	ISTC3046
Systems Analysis and Design	ISTC4042
Senior Seminar in IST	ISTC4055

#### **International Affairs**

[International Studies Department Website.](#)

The International Affairs program will offer students the opportunity to develop a global perspective by being exposed to the complexities of world politics and economics. It will instill in students an awareness and appreciation for the mosaic of cultural diversity among nations and peoples. Students will be familiarized with the rapidly developing international organizational structures in government, business and other areas of international activity. Students will have career opportunities in public service in international areas of government and diplomacy, international governmental and non-governmental organizations and international business.

To complete the International Affairs concentration successfully, the following course work is required:

- 36 credits of International Affairs Major Requirements

- 18 credits of International Affairs Major Electives (NOTE: Students may select up to 9 credits in History and/or Geography).
- 12 modern language credits in a language other than the student's native language (can be waived for International Students through completion of a Challenge Exam)
- 37 credits Core Curriculum courses
- 17 credits of General Electives selected by the student and the advisor.

120 credits are required for graduation, the last 30 of which must be completed at La Roche College.

### **International Affairs Major Electives: 18 credits**

Any Approved Geography Course	GEOGXXXX
Any Approved Geography Course	GEOGXXXX
Any Approved Geography Course	GEOGXXXX
Any approved History Course	HISTXXXX
Any approved History Course	HISTXXXX
Any approved History Course	HISTXXXX
International Business Management	INMT3039
International Marketing	INMT3049
International Finance	INMT4046
Internship in International Studies I	INST4051
Internship in International Studies II	INST4052
Independent Study	INST4057
Eastern Philosophy	PHIL1022
Any Approved Political Science Course	POLIXXXX
World Religions	RELS1003

### **International Affairs Major Requirements: 36 credits (select INST2011 or INST3010)**

Macroeconomics	ADMG1005
Global Politics	INST2001
Intercultural Communication	INST2003
World Geography	INST2011
International Political Economy	INST3003
Cultural Geography & the Human Mosaic	INST3010
Research Methods	INST3011
Comparative Government	INST3021
Development: Political, Social & Economic Issues	INST3025
International Legal Environment	INST4048
Senior Seminar in International Affairs	INST4055
American Government	POLI1022

### **International Management**

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The major in international management is designed to offer students an opportunity to broaden their perspectives to include the international aspects of management of business enterprise. A central objective is to train students interested in a career in international business by familiarizing them with the international operations of business enterprises and other institutions.

Students become familiar with the international economic and legal environment through a comprehensive review of international trade, foreign investment and the international monetary and legal systems. Students are further encouraged to develop a global perspective in their education by learning a foreign language, studying world geography, world politics and other courses with an international emphasis.

To complete the international management major successfully, the following course work is required:

- 48 credits in Business Core courses
- 9 credits of Skills Component courses
- 12 credits of International Management Major Requirements
- 12 credits of International Management Major Electives
- 6-8 credits in a Foreign Language other than the student's native language
- 34 credits of CORE Curriculum requirements

A minimum of 120 credits is required for graduation, the last 30 of which must be completed at La Roche College.

### **Business Core Requirements: 48 credits**

Accounting I	ACCT2003
Accounting II	ACCT2004

Managerial Accounting	ACCT2013
Macroeconomics	ADMG1005
Microeconomics	ADMG1006
Fundamentals of Management	ADMG1018
Business Law I	ADMG2009
Organizational Behavior	ADMG2018
Human Resources Administration	ADMG2025
Operations Management	ADMG4020
Seminar-Business Policy	ADMG4055
Financial Management	FINC3032
Financial Institutions	FINC3036
International Business Management	INMT3039
Practical Computer Applications	ISTC1005
Marketing Management	MRKT2021

**International Management Major Electives: 12 credits**

Communication Between Cultures	CMET2003
World Geography	GEOG2011
European Geography	GEOG2012
Cultural Geography and the Human Mosaic	GEOG3010
Geography & World Affairs	GEOG3013
International Management Internship I	INMT4051
Independent Study in International Management	INMT4057
Global Politics	INST2001
International Political Economy	INST3003
Eastern Philosophy	PHIL1022
Comparative Government	POLI3021
World Religions	RELS1003

**International Management Major Requirements: 12 credits**

International Political Economy	ADMG3003
International Marketing	INMT3049
International Finance	INMT4046
International Legal Environment	INMT4048

**Skills Component: 9 credits (select MATH1030 or MATH1070)**

Professional Presentations	ADMG3024
Calculus for Business, Economics, and Managerial Sciences	MATH1030
Probability and Statistics	MATH1040
Finite Mathematics for Business	MATH1070

**Leadership**

THIS PROGRAM IS OFFERED BOTH ON CAMPUS AND ONLINE.

We've designed the Leadership bachelor degree completion program with your needs in mind. In as little as 19 months, you can earn a Bachelor of Science. Once you've earned your degree, you'll be poised to compete in a 21st-century economy and pursue a career in business or management.

With Leadership, we get down to business. We focus on writing, research methods, organizational behavior, information technology, human resources administration and communications. You'll enroll in our intensive 30-credit program and take 9 consecutive courses over a 19-month period. You'll work in cohorts with people who come from similar professional backgrounds.

The Leadership program is designed for the working adult that has already completed some college coursework. While the Leadership program only consists of 30 credits, you must complete the equivalent of 120 credits of college coursework to earn your degree. La Roche can accept up to 90 transfer credits in some situations. You can also explore other ways to meet the requirements, including:

- Traditional or accelerated courses from La Roche College

- College-Level Examination Program (CLEP), a standardized multiple choice test for various subject areas
- Credits earned through Credit For Life Experience
- Challenge Exams

This degree completion program is designed for adult and transfer students interested in careers in business and management. The goals of the Leadership degree completion program are to enhance and further develop:

- Interpersonal and leadership skills
- Written and oral communication skills
- Real world problem solving and decision making skills
- Learner independence and self-reliance
- Understanding of the research process and its application.

We *strongly recommend* that students have at least 60 credits in transfer. To successfully complete the Leadership Program, the following course work is required:

- 30 Leadership program credits
- 90 Core/General elective credits (which includes transfer credits)

### **LEAD Component Requirements: 30 credits**

Dynamics of Teams	LEAD3001
Information Literacy Skills	LEAD3051
Management and Financial Analysis	LEAD3056
Macro Organizational Behavior	LEAD3061
Leadership and Ethics	LEAD4001
Communicating Change	LEAD4021
HR Concepts & Negotiations	LEAD4031
Global Thinking & E-commerce	LEAD4056
Capstone Project	LEAD4061

### **Management**

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

This major is designed to give students a solid foundation in the area of management. The main goals of the program are to prepare students for career opportunities in business administration and to prepare them for further study at the graduate level in business or public administration.

To successfully complete the Management Degree a minimum of 120 credits are required, the last 30 of which must be taken at La Roche College. The following coursework is required:

- 48 credits of Business Core Requirements
- 21 credits of Management Major Electives (can be selected from any of the Accounting, Finance, Information Systems, International Management, Administration & Management, Marketing or Real Estate courses, except ACCT1001, ADMG1001 or ADMG1030)
- 9 credits of Skills Components
- 34 credits of CORE Curriculum courses

**Business Core Requirements: 48 credits**

Accounting I	ACCT2003
Accounting II	ACCT2004
Managerial Accounting	ACCT2013
Macroeconomics	ADMG1005
Microeconomics	ADMG1006
Fundamentals of Management	ADMG1018
Business Law I	ADMG2009
Organizational Behavior	ADMG2018
Human Resources Administration	ADMG2025
Operations Management	ADMG4020
Seminar-Business Policy	ADMG4055
Financial Management	FINC3032
Financial Institutions	FINC3036
International Business Management	INMT3039
Practical Computer Applications	ISTC1005
Marketing Management	MRKT2021

**Skills Component: 9 credits (select MATH1030 or MATH1070)**

Professional Presentations	ADMG3024
Calculus for Business, Economics, and Managerial Sciences	MATH1030
Probability and Statistics	MATH1040
Finite Mathematics for Business	MATH1070

**Management Information Systems**[Information Systems & Technology Department Website](#)

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The major is designed to provide students with the knowledge, abilities and attitudes needed to function effectively as business and organizational programmers and analysts. Further, it provides students with the educational background for lifelong professional, cultural, educational and personal development. The MIS major will receive in-depth education and training in at least three different career-related areas:

- In systems development methodologies, which provide the fundamental problem-solving approaches used in the profession
- In technical computer skills, which provide the tools for implementing those problem solutions
- In business theory, which provides an understanding of the context within which the systems are implemented.

This program is part of our Management and Information Systems Technology (MIST) program in the Business Division.

To complete the Management Information Systems major successfully, the following course work is required.

- 48 Business Core Requirements credits
- 12 Skills Component credits
- 27 MIS major credits
- 3 MIS major elective credits
- 34 credits of Core Requirements

A minimum of 120 credits are required for degree, the last 30 of which must be completed at La Roche College.

**Business Core Requirements: 48 credits**

Accounting I	ACCT2003
Accounting II	ACCT2004
Managerial Accounting	ACCT2013
Macroeconomics	ADMG1005
Microeconomics	ADMG1006
Fundamentals of Management	ADMG1018
Business Law I	ADMG2009
Organizational Behavior	ADMG2018
Human Resources Administration	ADMG2025
Operations Management	ADMG4020
Seminar-Business Policy	ADMG4055
Financial Management	FINC3032
Financial Institutions	FINC3036
International Business Management	INMT3039
Practical Computer Applications	ISTC1005

**MIS Major Electives: 3 credits**

Accounting with Computers	ACCT2025
Auditing	ACCT4002
Networking	ISTC2030
Linux	ISTC3030
Computer Programming in Java	ISTC3034
Advanced Data Base Management Concepts	ISTC3046
Information Systems Technology Internship I	ISTC4051

**MIS Major Requirements: 27 credits**

Problem Solving	ISTC1021
Computer Hardware	ISTC1025
Introduction to Cyberspace	ISTC2008
Management Of Information Systems	ISTC2021
Data Base Management Systems	ISTC2045
Distributed Data Processing	ISTC2050
Computer Programming: COBOL	ISTC3020
Systems Analysis and Design	ISTC4042
Senior Seminar in IST	ISTC4055

**Skills Component: 9 credits (select MATH1030 or MATH1070)**

Professional Presentations	ADMG3024
Calculus for Business, Economics, and Managerial Sciences	MATH1030
Probability and Statistics	MATH1040
Finite Mathematics for Business	MATH1070

**Marketing**

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Management Information Systems Technology is a member of the Accreditation Council for Business Schools and Programs (ACBSP), a leading specialized accreditation association for business education.

The field of Marketing includes a variety of related business activities. While individual occupations within these diverse areas may be specialized, decisions in any one of them require a broad understanding of the marketing process and an ability to analyze the factors that influence it. The marketing process begins with the identification and design of products or services, which will satisfy customer needs in both for-profit and non-profit environments. It continues with the packaging, pricing, advertising, distribution, sales promotion and servicing of the firms' offerings, whether in the real space or virtual (internet) environment.

The major in Marketing is designed as a comprehensive study of all these activities, providing both the common background required for any marketing career and an opportunity for specialization based on the student's interests. Students learn through the classroom as well as outside research projects involving real world marketing challenges.

This broadly designed major is appropriate for careers in:

- generalized marketing and brand management
- advertising, PR, and promotional strategy
- personal selling and sales management
- retail merchandising and management, and
- marketing research

In this extremely competitive age of business, marketing provides the tools and skills necessary for differentiating companies, products and individuals. An understanding of product design, advertising, pricing, consumer behavior and distribution management is also essential. This major will actively promote an internship experience for students that can greatly facilitate the job search process.

To complete the Marketing major successfully, the following course work is required:

- 48 Business Core Requirement credits
- 9 Skills Component credits
- 15 Marketing major required credits
- 15 Marketing major recommended electives
- 34 CORE academic program requirements and general electives

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

**Business Core Requirements: 48 Credits**

Accounting I	ACCT2003
Accounting II	ACCT2004
Managerial Accounting	ACCT2013



Macroeconomics	ADMG1005
Microeconomics	ADMG1006
Fundamentals of Management	ADMG1018
Business Law I	ADMG2009
Organizational Behavior	ADMG2018
Human Resources Administration	ADMG2025
Operations Management	ADMG4020
Seminar-Business Policy	ADMG4055
Financial Management	FINC3032
Financial Institutions	FINC3036
International Business Management	INMT3039
Practical Computer Applications	ISTC1005
Marketing Management	MRKT2021

**Business Skills Components: 9 credits**

Professional Presentations	ADMG3024
Calculus for Business, Economics, and Managerial Sciences	MATH1030
Probability and Statistics	MATH1040

**Marketing Major Electives: 15 credits**

Advertising and Public Relations	MRKT2007
Personal Selling	MRKT3016
Sports Marketing	MRKT3031
Internet Marketing	MRKT3050
Brand Management	MRKT4016
Services Marketing	MRKT4018
Sports Administration & Management	MRKT4019
Retail Marketing & Management	MRKT4035
Sales Management	MRKT4046
Marketing Internship	MRKT4051

**Marketing Major Requirements: 15 credits**

Buyer Behavior	MRKT3012
Marketing Research	MRKT3033
International Marketing & Export Management	MRKT3049
Marketing Strategy	MRKT4014
Contemporary Topics in Marketing	MRKT4031

**Medical Imaging**

This major is meant to prepare students for a career in Medical Imaging, including, but not limited to, radiography, MRI, nuclear medicine and ultrasound. A student must have already completed an approved hospital program in one of these areas.

To successfully complete the Medical Imaging major, the following coursework is required:

- Current RT or RDMS Certification (60 credits)
- 21 credits of Liberal Arts courses
- 27 credits of CORE curriculum courses
- 12 credits of General Electives

A minimum of 120 credits are required for the degree, the last 30 of which must be earned at La Roche College.

**Liberal Arts Component: 21 Credits**

Intro to Administration & Management	ADMG1001
Administration & Management Elective	ADMGXXXX
Administration & Management Elective	ADMGXXXX
Probability and Statistics	MATH1040
Introduction to Psychology	PSYC1021

**Liberal Arts Component: 21 Credits (Select 1 of the following Courses)**

Professional Presentations	ADMG3024
Modern Public Speaking	SPCH1001

**Liberal Arts Component: 21 Credits (Select 1 of the following ENGL Courses)**

Business Communications	ENGL2029
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**Accounting Minor**[Accounting Department Website](#)

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

Eighteen (18) credits are required for completion of a minor in Accounting. Three (3) academic years are estimated for completion with respect to fall/spring course rotation and prerequisites. Students interested in preparing for the CPA examination should consult with the Accounting Department Chair for assistance. Completion of this minor alone may not necessarily facilitate adequate preparation for the professional credential.

**Elective Courses: 9 credits**

Accounting with Computers	ACCT2025
Taxation I	ACCT3001
Taxation II	ACCT3002
Intermediate Accounting I	ACCT3011
Intermediate Accounting II	ACCT3012
Cost Accounting	ACCT3014
Advanced Accounting	ACCT4001
Auditing	ACCT4002

**Required Courses: 9 credits**

Accounting I	ACCT2003
Accounting II	ACCT2004
Managerial Accounting	ACCT2013

**Finance Minor**

Twenty-one credits (21) are required for completion of a minor in Finance.

NOTE: An Accounting, Management, E-Commerce or International Management major would need only three (3) courses to receive a minor in Finance. Students pursuing any of these majors should consult with their advisor.

**Choose one of the following courses (3 credits)**

Risk Management & Insurance	FINC3040
Real Estate Investment	FINC4039
International Finance	INMT4046

**Required Courses (18 credits)**

Accounting I	ACCT2003
Accounting II	ACCT2004
Taxation I	ACCT3001
Investments	FINC3031
Financial Management	FINC3032
Financial Institutions	FINC3036

**Information Technology Minor****Requirements: 18 credits**

3 academic years are estimated for Information Technology minor completion with respect to fall/spring course rotation and prerequisites.

**Required Courses: 6 credits**

Problem Solving	ISTC1021
Management Of Information Systems	ISTC2021

**Select 4 courses from the list below: 12 credits**

Computer Crime	CRIM3043
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Advanced Database Theory	CSCI4055
Advanced Practical Computer Applications	ISTC1006
Computer Hardware	ISTC1025
IST: A Global Perspective	ISTC2005
Introduction to Cyberspace	ISTC2008
Computer-Based Training & DL	ISTC2025
Networking	ISTC2030
Data Base Management Systems	ISTC2045
Advanced Computer Hardware	ISTC3000
Legal Issues and Info Tech	ISTC3005
Web Page Usability & Programming	ISTC3008
IT Services Administration	ISTC3010
Human Computer Interaction	ISTC3015
Advanced Data Base Management Concepts	ISTC3046

### **Management Information Systems Minor**

[Information Systems & Technology Department Website](#)

#### **Requirements: 18 credits**

3 academic years are estimated for Computer Information Systems minor completion with respect to fall/spring course rotation and prerequisites.

#### **Minor Electives: 6 credits**

Database Systems Theory	CSCI2055
Problem Solving	ISTC1021
Introduction to Cyberspace	ISTC2008
Distributed Data Processing	ISTC2050
Web Page Usability & Programming	ISTC3008

#### **Required Courses: 12 credits**

Management Of Information Systems	ISTC2021
Data Base Management Systems	ISTC2045
Advanced Data Base Management Concepts	ISTC3046

#### **Required Courses: Select 1 of the following courses**

Project Management	ADMG3015
Systems Analysis and Design	ISTC4042

### **Management Minor**

Three (3) academic years are estimated for completion of the Management Minor with respect to fall/spring course rotation and prerequisites. Management and Information Systems Technologies (MIST) majors may not declare a management minor. To complete the Management Minor, 18 credits are required.

#### **Required Courses:**

Intro to Administration & Management	ADMG1001
Fundamentals of Management	ADMG1018
Human Resources Administration	ADMG2025
Marketing Management	MRKT2021

#### **Select 1 of the following courses :**

Macroeconomics	ADMG1005
Microeconomics	ADMG1006

#### **Select 1 of the following courses:**

Accounting Concepts	ACCT1001
Accounting I	ACCT2003
Financial Survival & Economic Well Being	ADMG2037

### **Marketing Minor**

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#). To complete the Marketing Minor, a total of 15 credits are required.

**Minor Electives: Select 9 credits (3 courses)**

Advertising and Public Relations	MRKT2007
Personal Selling	MRKT3016
Sports Marketing	MRKT3031
Marketing Research	MRKT3033
International Marketing & Export Management	MRKT3049
Internet Marketing	MRKT3050
Brand Management	MRKT4016
Services Marketing	MRKT4018
Sports Administration & Management	MRKT4019
Contemporary Topics in Marketing	MRKT4031
Retail Marketing & Management	MRKT4035
Sales Management	MRKT4046

**Minor Requirements: 6 credits (Select MRKT3012 or MRKT4014)**

Marketing Management	MRKT2021
Buyer Behavior	MRKT3012
Marketing Strategy	MRKT4014

**Web Design and Development**

The Web Design and Development Minor combines the best of the Graphic and Communication Design, Information Technology and Marketing departments to provide a well-balanced overview of both programming and design.

There are two distinct programs for this minor:

- 1)for students enrolled as Graphic and Communication Design major
- 2)for students enrolled in Information Systems Technology and all other majors on campus

To successfully complete the Web Design and Development Minor students will complete a minimum of **15** credits and maintain GPA of **2.0** in their minor coursework.

**Note:** Students enrolled in this minor will be required to purchase or have access to their own specific URL and complete access to administering the URL. The student must maintain and keep the URL active during the life of their minor coursework.

**Minor Electives (All Majors Except GCD): Select 3 credits**

Fundamentals of Electronic Publishing	GCDN1025
Computer-Based Training & DL	ISTC2025
Data Base Management Systems	ISTC2045
Web Page Usability & Programming	ISTC3008
Human Computer Interaction	ISTC3015
Linux	ISTC3030
Computer Programming in Java	ISTC3034
Advanced Data Base Management Concepts	ISTC3046
Internet Marketing	MRKT3050

**Minor Electives (GCD Majors): Select 12 credits**

Computer-Based Training & DL	ISTC2025
Data Base Management Systems	ISTC2045
Web Page Usability & Programming	ISTC3008
Human Computer Interaction	ISTC3015
Linux	ISTC3030
Computer Programming in Java	ISTC3034
Advanced Data Base Management Concepts	ISTC3046
Internet Marketing	MRKT3050

**Minor for Graphic and Communication Design Majors: Minor Electives-Select 12 credits (ISTC2045 or CSCI2055 AND ISTC3034 or CSCI1010)**

Programming I	CSCI1010
Database Systems Theory	CSCI2055
Computer-Based Training & DL	ISTC2025
Data Base Management Systems	ISTC2045
Web Page Usability & Programming	ISTC3008
Human Computer Interaction	ISTC3015
Linux	ISTC3030
Computer Programming in Java	ISTC3034
Advanced Data Base Management Concepts	ISTC3046
Internet Marketing	MRKT3050

**Minor for Graphic and Communications Majors: Minor Requirements- 3 credits**

Scripting for the Web	ISTC3028
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**Minor for Other Majors: Minor Electives-Select 3 credits (ISTC2045 or CSCI2055 AND ISTC3034 or CSCI1010)**

Programming I	CSCI1010
Database Systems Theory	CSCI2055
Fundamentals of Electronic Publishing	GCDN1025
Computer-Based Training & DL	ISTC2025
Data Base Management Systems	ISTC2045
Web Page Usability & Programming	ISTC3008
Human Computer Interaction	ISTC3015
Linux	ISTC3030
Computer Programming in Java	ISTC3034
Advanced Data Base Management Concepts	ISTC3046
Internet Marketing	MRKT3050

**Minor for Other Majors: Minor Requirements-12 credits**

Web Graphics I	GCDN1080
Interactive I	GCDN2029
Web Graphics II	GCDN2080
Scripting for the Web	ISTC3028

**Required Courses (All Majors Except GCD):12 Credits**

Web Graphics I	GCDN1080
Interactive I	GCDN2029
Web Graphics II	GCDN2080
Scripting for the Web	ISTC3028

**Required Courses (GCD Majors): 3 credits**

Scripting for the Web	ISTC3028
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**Accounting Certificate**

[Accounting Department Website](#)

This program is a part of our [Management and Information Systems Technology \(MIST\) Programs](#).

**Certificate Benefits**

You may have your bachelor's degree and are working in a position at your company that requires you to perform accounting- or finance-related job duties. If you like them, and you want to take the next step in building your career, you should learn more about this new program at La Roche. Accounting is a booming job market right now; recruiters are actively seeking La Roche accounting graduates to join their businesses. This certificate also will help you further your goal of becoming a CPA or CMA.

**Course of Study**

To complete the Accounting Certificate 24 credits are needed: 12 credits of Required Courses and 12 credits of Electives that provide you with an accounting certificate that documents your concentrated study in the field.

**Electives: 12 credits (Select 4 courses)**

Taxation I	ACCT3001
Taxation II	ACCT3002
Intermediate Accounting I	ACCT3011
Intermediate Accounting II	ACCT3012
Cost Accounting	ACCT3014
Advanced Accounting	ACCT4001
Auditing	ACCT4002

**Required Courses: 12 credits; General Rotation (8 weeks each)**

Accounting I	ACCT2003
Accounting II	ACCT2004
Managerial Accounting	ACCT2013
Accounting with Computers	ACCT2025

## Administration Certificate Program

Twenty-four (24) credits will be required for the certificate. No more than nine credits will be transferred from another institution.

### Required Courses: 24 credits

Managerial Accounting	ACCT2013
Macroeconomics	ADMG1005
Fundamentals of Management	ADMG1018
Business Law I	ADMG2009
Organizational Behavior	ADMG2018
Human Resources Administration	ADMG2025
Project Management	ADMG3015
Marketing Management	MRKT2021

### Consulting for Organizational Learning, Development and Change

This certificate provides students with specific knowledge and skills in human resources development, upon which expertise in the practice and analysis of organizational communications is built. Students also gain a solid working knowledge of the ideas and activities involved in designing and evaluating organizational training and development programs. Theories, concepts, and tools necessary for the initiation and implementation of organizational change are covered in this certificate program.

### Required Courses:

Computer and Web-based Training	HRMT6001
Training and Development	HRMT6012
Planning and Implementing Change	HRMT6020
Any 6000-level HRM course	HRMT6XXX

### Contemporary Concepts in Human Resources Management

#### [Human Resources Management Website](#)

This program provides an up-to-date overview of contemporary concepts in the field of human resources management. The student will learn to analyze a variety of organizational structures and select one that is compatible with a company's technological and environmental needs. Ideal for the entering student, this certificate provides a broad-based view of organization management as well as exposure to information systems and other "contemporary" processes and issues.

Organizational Behavior	HRMT5020
Organizational Theory	HRMT5023
Any 6000-level HRM course	HRMT6XXX
Any 6000-level HRM course	HRMT6XXX

### Financial Aspects of Human Resources Management

This certificate introduces students to key financial aspects of the human resources management field. Valuable insight into the basic concepts of finance and budgeting as well as a broadened theory and practical application related to labor economics and compensation management is provided.

### Required Courses (Select one of the following):

Training and Development	HRMT6012
Planning and Implementing Change	HRMT6020
Labor Relations and Collective Bargaining	HRMT6021
Performance Management Systems	HRMT6036

### Required Courses:

Financial Analysis and Budgeting	HRMT5011
Compensation Management	HRMT6013
Employee Benefits Management	HRMT6015

### HR Professional

A graduate-level track designed for the practicing HR professional who wants to take the PHR or SPHR Certification Examination. Twelve credits are required for completion of this Certificate. HRMT5012, 5020 and 6035 are required courses. Students may select HRMT6013, 6015, 6016 OR 6021 to complete credit requirements.

Organizational Behavior	HRMT5020
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SHRM Learning System  
Any 6000-level HRM course  
Any 6000-level HRM course  
Any 6000-level HRM course  
Any 6000-level HRM course

HRMT6035  
HRMT6XXX  
HRMT6XXX  
HRMT6XXX  
HRMT6XXX

### **Human Resources Generalist**

The HR generalist certificate provides instruction in the essential elements of the HR generalist's job-recruitment, benefits, management, and managing human resource information systems. "HR Generalist" is the title used by most organizations to describe the typical HR staff professional. It provides you with specific knowledge and skills in human resources for an entry level position.

Organizational Behavior  
Employee Benefits Management  
Recruitment and Placement  
Any 6000-level HRM course

HRMT5020  
HRMT6015  
HRMT6017  
HRMT6XXX

### **Human Resources Information Systems and Technology**

This certificate provides the student with skills in HR database design, development, and management, including the use of the internet for recruitment and other corporate purposes. As human resource information systems are being used by more and more corporations today, the certificate gives the graduate an edge in the hunt for promotions and new jobs.

Organizational Behavior  
Human Resources Information Systems  
Computer and Web-based Training  
Managing Information Technology & Change Processes

HRMT5020  
HRMT6000  
HRMT6001  
HRMT6034

### **Legal Aspects of Human Resources Management**

This certificate provides a comprehensive introduction to the current legislation that affects human resources management practice. Ideal for an individual interested in human resources administration, this certificate prepares the student for "office work" with HR-benefits, compensation analyst, personnel officer, or HR assistant.

Legal Aspects of Human Resources Management  
Workplace Diversity  
Advanced Legal Aspects  
Labor Relations and Collective Bargaining

HRMT5012  
HRMT6002  
HRMT6011  
HRMT6021

### **Managing Information Technology and Change**

Successful completion of this certificate will provide professionals with the skills to access, understand, develop, implement, and evaluate the new technology as well as develop the management skills of leading and managing the change effort in the organization.

Financial Analysis and Budgeting  
Human Resources Information Systems  
Planning and Implementing Change  
Managing Information Technology & Change Processes

HRMT5011  
HRMT6000  
HRMT6020  
HRMT6034

### **Master of Science in Accounting**

The Business Division in collaboration with the Accounting Department at La Roche College, have developed a Master of Science in Accounting. The program is tailored to meet the needs of the Accounting professional who is becoming more and more critical in businesses, both small and large. The 30-credit masters level Accounting Program will offer one of the few comprehensive, non-MBA, graduate Accounting programs in Western Pennsylvania.

It is our desire that students enrolled in the graduate program at La Roche will develop advanced accounting skills and techniques that can be put to use immediately to enhance their career and their competitiveness.

The graduate program will prepare the accounting student for the challenges and issues within the complex and changing field of accounting. The program will prepare students to succeed by exploring advance topics such as international accounting, updates in SEC reporting and contemporary topics in taxation. Students will also have the opportunity to apply their coursework, accounting principles and techniques to a real organization in the Applied Research in Accounting course.

Upon successful completion of the Master of Science in Accounting, graduates will be prepared for successful careers in the accounting field, as well as provide the necessary preparation for CPA licensure.

## OBJECTIVES:

- To provide students with sound theoretical background in the accounting field and develop professional competencies in advanced accounting, taxation, forensic accounting and advanced auditing.
- To provide students with the requisite specialized knowledge of advanced accounting principles and to do so in an ethical and responsible manner.
- To contribute to the profession of Accounting by preparing students for the CPA exam and/or requirements for licensure.

### Admission Requirements:

- A baccalaureate degree in business, accounting or finance from an accredited college or university.
- Overall undergraduate grade point average (GPA) of 3.25 or better on a 4.0 scale. Applicants with less than a 3.25, who show extreme promise through other achievements, may be granted provisional admission with permission from the program chair. After six credits of graduate level coursework, these students will be reviewed and may be eligible for full admission after attaining a GPA of 3.0 or better.
- Prerequisite undergraduate courses include:
  - 1. Intermediate Accounting (LRC equivalent AC311 and AC312)
    2. Taxation I (LRC equivalent of AC301)
    3. Auditing (LRC equivalent of AC402)

A grade of a "C" or better is expected in these undergraduate prerequisites, otherwise the applicant will need to retake the prerequisite course(s) until their grade improves to a "C" or better. Applicants will not receive full acceptance into the program until prerequisite courses have been satisfactorily completed.



- Proficiency in written and oral communications, college level math, and computer usage including word processing, spreadsheets, databases, and the Internet are required.
- Official transcripts from all post secondary institutions attended, submitted in a sealed envelope by the degree-granting institution
- Students whose official transcripts are not in English will be required to submit translated transcripts. If this applies to you, please ask your university to provide two original transcripts. The first set of transcripts must remain in the sealed envelope. The second set of transcripts should be sent to an official translation agency for translation.
- Two letters of recommendation/reference
- Personal essay of Professional and Academic Goals
- Current Resume
- Completed and signed application form
- Payment of a non-refundable \$50 application fee
- Participation in a personal interview once your complete application is received
- If you fail to meet one or more of the above criteria, or feel your earned GPA or standardized test scores are not indicative of your ability to be successful in a graduate degree program, please submit additional documentation to augment your application portfolio. For example the Graduate Admissions Office may consider a professional certification such as the CPA, CMA or other comparable accounting certifications as part of your admissions application.
- Only those applicants who have submitted complete application packets will be considered for admittance into the Master of Science Accounting Program at La Roche College

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**Required Courses: 30 credits**

Ethics & Professional Responsibilities in Accounting	ACCT5020
Modern Accounting Information Systems	ACCT5035
The Business of Reading & Writing	ACCT5040
Fraud Examination	ACCT5050
Advanced Forensic Accounting	ACCT6020
Wealth Management	ACCT6050
Accounting for Not-for-Profit Entities	ACCT6060
Contemporary Issues in Taxation	ACCT6080
International Accounting	ACCT6085
Applied Research	ACCT6099

**Master of Science in Human Resources Management**

## **QUICK LINKS**

- [Apply Now Online](#)
- [Download an Application \(PDF\)](#)
- [Letter of Reference \(PDF\)](#)
- [Course Rotation \(PDF\)](#)
- [Suggested Electives \(PDF\)](#)
- [Detailed Brochure \(PDF\)](#)
- [Overview Brochure \(PDF\)](#)
- [Informational Flier \(PDF\)](#)
- [PHR/SPHR Certification Prep Course - SHRM Learning System](#)

La Roche College's human resources master's program is tailored to the needs of the HR professional and offers a solid managerial base to others who take on the challenge of managing a workforce. La Roche College offers one of the few comprehensive human resource management programs in Pennsylvania. Achieving your Master of Science degree in Human Resources Management will place you several rungs above the competition.

Effective managers get things done through people. They need to draw on storehouses of practical and theoretical knowledge. At La Roche, you'll develop coaching skills and learn business principles and management techniques that you can put to use immediately to enhance your career and your competitiveness. You will gain the career mobility you desire. And you will earn a valuable and respected credential - a master's degree in Human Resource Management.

## **The HRM Master's Curriculum**

The program consists of 36 credits. Courses follow a well-sequenced plan founded on a common core of 21 credits. The common core, taken by all students, offers an interdisciplinary foundation that provides students with knowledge pertaining to the major issues in human resource management.

## **HR Concentrations**

Beyond the 21 core credits students specialize in one of four concentrations:

- Concentration A-HR Administration
- Concentration B-Consulting for Organizational Learning, Development, and Change
- Concentration C-Strategic Management and Leadership
- Concentration D-Managing Information Technology in Organizations and HR

The La Roche Graduate Program faculty are dedicated professors who enjoy leadership positions in their areas of expertise. Adjunct faculty are respected professionals in Pittsburgh's public and private sectors. Together, they provide a unique blend of theory and application.

Students should also successfully complete all prerequisite courses required for admission. Prerequisite coursework credits do not count toward the 36 credit graduate degree completion requirement.

Part-time students typically finish the HRM program in two and one-half years; however, every student is afforded six years in which to complete his/her study. Students may also finish in less than two years, depending on time available for graduate study.

On rare occasions transfer credits may be awarded for previous graduate coursework as well as credits earned in the Graduate Courses.

*Note: The Graduate Program in Human Resource Management is separate from La Roche College's undergraduate business programs and is not a part of its ACBSP accreditation.*

In addition to the Master's Program, we offer 8 certifications in particular areas of HR:

- Legal Aspects of Human Resources Management
- Contemporary Concepts in Human Resources Management
- HR Generalist
- Financial Aspects of Human Resources Management
- Consulting for Organizational Learning, Development, and Change
- Human Resources Information Systems and Technology
- Managing Information Technology and Change
- HR Professional

Ideal for the HR professional interested in upgrading his/her skill set, our four- course certificate programs can be a more convenient alternative to the full Masters Program. However, students who successfully complete a certificate program with no less than a "B" in every course are exempt from the GMAT or GRE testing requirements for entrance into the Masters program. Click on the link above to learn more about the HRM Certificate programs.

Following are the Concentration, Core and Elective requirements for the Masters of Science in Human Resources Management.

**\*Core Course Requirements (21 credits)**

Financial Analysis and Budgeting	HRMT5011
Legal Aspects of Human Resources Management	HRMT5012
Quantitative Research Methods in Human Resources Management	HRMT5013
Organizational Behavior	HRMT5020
Organizational Theory	HRMT5023
Integrative Seminar in HRM	HRMT5025A
Integrative Seminar in HRM	HRMT5025B

**All 6000 Level Courses**

Computer and Web-based Training	HRMT6001
Workplace Diversity	HRMT6002

Current Topics in HRM	HRMT6006
Advanced Legal Aspects	HRMT6011
Training and Development	HRMT6012
Compensation Management	HRMT6013
Employee Benefits Management	HRMT6015
Employee Health & Safety	HRMT6016
Recruitment and Placement	HRMT6017
Leadership	HRMT6018
Planning and Implementing Change	HRMT6020
Labor Relations and Collective Bargaining	HRMT6021
Internet and Technical Recruiting	HRMT6028
Managing Information Technology & Change Processes	HRMT6034
SHRM Learning System	HRMT6035
Performance Management Systems	HRMT6036

**Concentration A - HR Administration: HRMT6013, Compensation and HRMT6017, Recruitment required, plus nine (9) credits of electives from the following:**

Human Resources Information Systems	HRMT6000
Workplace Diversity	HRMT6002
Advanced Legal Aspects	HRMT6011
Training and Development	HRMT6012
Compensation Management	HRMT6013
Employee Benefits Management	HRMT6015
Employee Health & Safety	HRMT6016
Recruitment and Placement	HRMT6017
Leadership	HRMT6018
Labor Relations and Collective Bargaining	HRMT6021
Internet and Technical Recruiting	HRMT6028
SHRM Learning System	HRMT6035
Performance Management Systems	HRMT6036

**Concentration B - Consulting for Organizational Learning, Development & Change: HRMT6012-Training & HRMT6020-Planning & Implementing Change required, plus nine (9) credits from the following:**

Computer and Web-based Training	HRMT6001
Workplace Diversity	HRMT6002
Current Topics in HRM	HRMT6006
Training and Development	HRMT6012
Employee Health & Safety	HRMT6016
Leadership	HRMT6018
Planning and Implementing Change	HRMT6020
Managing Information Technology & Change Processes	HRMT6034
SHRM Learning System	HRMT6035
Performance Management Systems	HRMT6036

**Concentration C - Strategic Management & Leadership: HRMT6018-Leadership and HRMT6036-Performance Management required, plus nine (9) credits from the following:**

Human Resources Information Systems	HRMT6000
Workplace Diversity	HRMT6002
Current Topics in HRM	HRMT6006
Advanced Legal Aspects	HRMT6011
Compensation Management	HRMT6013
Employee Health & Safety	HRMT6016
Recruitment and Placement	HRMT6017
Leadership	HRMT6018
Planning and Implementing Change	HRMT6020
Labor Relations and Collective Bargaining	HRMT6021
SHRM Learning System	HRMT6035
Performance Management Systems	HRMT6036

**Concentration D - Managing Information Technology in Organizations and HR: HRMT6000-HRIS and HRMT6034-Managing IT required, plus nine (9) credits from the following:**

Human Resources Information Systems	HRMT6000
Computer and Web-based Training	HRMT6001
Current Topics in HRM	HRMT6006
Leadership	HRMT6018
Planning and Implementing Change	HRMT6020
Internet and Technical Recruiting	HRMT6028
Managing Information Technology & Change Processes	HRMT6034



**Design Division****Programs of Study****Majors**

Graphic Design  
Interior Design

BS  
BSID

**Minors**

Visual Communication Minor

Other

**Detail - Design Division****Graphic Design**

The Graphic Design Program prepares students for exciting careers in visual communication: graphic design, advertising, illustration, photography, typography, packaging, publication and multimedia. Grounded in the foundation principals and elements of design, the curriculum prepares students to meet the technological challenges of this fast-paced career through experiences in design software such as: the Adobe Creative Suite 3 (including InDesign, Photoshop and Illustrator), Flash, Dreamweaver, Final Cut and Quicktime Pro. The first two academic years, known as the Foundation Program, culminate with the Mid-Collegiate Review process (see below). The student then moves into the Professional Program, which emphasizes presentation opportunities, internships, team problem solving and professional portfolio development.

**Mid-Collegiate Review**

Prior to enrolling in upper level design courses, transfer students and students who have reached the mid-point (second semester of the sophomore year) in the Graphic Design Program, must pass a Mid-Collegiate Review. In an interview with the student, the faculty will assess the student's work from all foundation courses along with the student's motivation and attitude, presentation skills, career goals and academic record. The criteria for the review is fully outlined prior to the meeting, and the student will receive a written evaluation following the interview. As a result of the review process, the faculty will recommend that the student either: (1) continue in the Graphic Design Program, (2) continue in the program with recommendations (e.g. attend summer classes or complete individualized assignments), (3) continue in the program with requirements (e.g. take specified courses or attend summer classes), or (4) change majors before the next academic term. It will be the professional consensus of the faculty, and not simply individual grades, that will determine whether or not a student will be allowed to continue in the program.

To complete the Graphic Design Program successfully, the following coursework is required:

- 63 credits of Graphic Design Major Requirements
- 15 credits of Graphic Design Major Electives
- 12 credits of Art History Requirements
- 34 credits of CORE Curriculum courses
- successful completion of Mid-Collegiate Review

A minimum of 124 credits is required for graduation, the last 30 of which must be earned at La Roche.

**Academic Standards**

Students must earn a grade of "C" or above in all Graphic Design major requirements to fulfill prerequisites and degree requirements. Grades below a "C", including "C-", will affect participation in portfolio reviews and advancement in the curriculum.

## Course Rotation

Graphic Design courses are offered sequentially during the academic year and the summer as enrollment permits. Courses are also offered in the evening. Note: students will be unable to complete the program without taking courses during the day.

## Internship Requirement

All students are required to complete a 3-credit internship during their junior or senior year.

## Transfer Policy

Transfer students apply through the Office of Adult Education and Graduate Studies. Students applying with 12 or more credits of design-related coursework may be asked to present their work to a designated member of the Graphic Design faculty for evaluation and placement in the curriculum. Placement is determined by the content of transferred credits in comparison with courses in the La Roche Graphic Design Foundation Program. Incoming transfer students need to be aware that additional semesters may be needed in order to meet the requirements of the curriculum. Additionally, all transfer students must sit for and pass the Mid-Collegiate Review before enrolling in upper-level design courses.

Interactive I	GCDN2029
Typography II	GCDN3022
Package Design	GCDN3043
Wayfinding and Environmental Graphic Design	GCDN3053
<b>Graphic &amp; Communication Design Major Requirements: 60 credits</b>	

Drawing I	GCDN1023
Foundation Design I	GCDN1060
Foundation Design II	GCDN1062
Computer Graphics I	GCDN1070
Computer Graphics II	GCDN1071
Digital Publishing	GCDN2008
Graphic Design Methodologies	GCDN2010
Typography I	GCDN2012
Digital Photography	GCDN2016
Graphic Design I	GCDN2021
Digital Prepress & Printing	GCDN3026
Graphic Design II	GCDN3031
Graphic Design III	GCDN3041
Interactive II	GCDN3045
Multimedia	GCDN3046
Senior Design Capstone	GCDN4041
Graphic Design Internship I	GCDN4051
Senior Design Seminar	GCDN4055
Portfolio Preparation	GCDN4058

## Major Electives: 18 credits

Illustration	GCDN2038
Word and Image	GCDN2040
Photographic Lighting Techniques	GCDN2047
Special Topics	GCDN4050
Graphic Design Internship II	GCDN4052
Buyer Behavior	MRKT3012
Marketing Strategy	MRKT4014

## Requirement Art History: 12 credits

Art History I	ARTH1017
History of Art II: Renaissance to Modern	ARTH1018
History of Graphic Design	ARTH2002
History of Film	ARTH3016

## Interior Design



Interior Design Department Website The La Roche College Interior Design Program believes that a successful interior design education enhances a student's innate creativity and interest in the built environment. An interior design education also effectively teaches the knowledge and skills needed to evolve holistic, thoughtfully conceived design solutions in response to humanity's aesthetic, emotional, and utilitarian design needs. The program's mission is to prepare students to perform as design professionals with a life-long desire to remain current in the profession and be advocates for design excellence, thereby promoting the importance of interior design to society.

This major prepares students for careers in commercial and residential interior design in large and small interior design and architecture firms, as well as industrial, commercial and institutional organizations. It also provides a solid foundation for students who wish to own a design firm or pursue a graduate degree in design. The interior design program fosters the transition to the professional world by requiring all majors to complete an internship experience in the field prior to graduation.

Entering interior design majors are required to purchase a laptop computer with software that is commonly used in the profession. Specific computer requirements for the 2011-2012 academic year can be viewed at <http://intranet.laroche.edu/sci/overview.cfm>. These requirements are updated annually in the summer.

The Council for Interior Design Accreditation has granted accreditation to the La Roche College Interior Design Program continuously since 1985. The College also holds National Association of Schools of Art and Design (NASAD) accreditation, which extends to the Interior Design program. Membership in the student chapter of the American Society of Interior Design (ASID) and in the International Interior Design Association (IIDA) is available to all design majors.

### **Interior Design Portfolio Review**

To advance in the curriculum, Interior Design majors are required to present a portfolio of their work to the interior design faculty at two key points in their education:

#### **1. Advisory Review**

Students submit work for Advisory Review after completing IDSN1020, IDSN1021, and IDSN1062 with grades of "C" or above. Students may advance to IDSN2038a Interior Design II only after completing the Advisory Review process. Advisory Review results in one of three recommendations:

- to continue in interior design;
- to continue in interior design with stated reservations and recommended action; or
- to change majors before the next academic term

#### **2. Conclusive Review**

Students submit work for Conclusive Review after completing IDSN2038b and four of the following five courses with grades of "C" or above: IDSN1023, IDSN2015, IDSN2044, IDSN2045 and IDSN2046.

Exception: Students in the Three-Year Accelerated Curriculum must pass IDSN2038a and IDSN2038b and five of the following six courses with grades of "C" or above: IDSN1023, IDSN2015, IDSN2037, IDSN2044, IDSN2045, and IDSN3040.

Students may advance to IDSN3028a Interior Design III only after successfully completing the Conclusive Review process. Conclusive Review results in one of three decisions:

- student is invited to continue to major in interior design;
- student is required to repeat IDSN2038b Interior Design II the next semester, and submit work for Conclusive Review again (note: this option may only be offered once); or
- student is required to change majors before the beginning of the next term.

Students must earn a grade of "C" or above in all interior design major requirements to fulfill prerequisites and graduation requirements. Grades below a "C" may delay participation in portfolio reviews and advancement in the curriculum.

Interior design courses are offered during summer session as enrollment permits. Courses also are offered in the evening, but students are unable to complete the program without taking courses during the day.

The program is technically a four-and-one-half year curriculum because a student must earn a minimum of 133 credit hours to attain a Bachelor of Science in Interior Design (BSID) degree, with the last 30 credit hours earned at La Roche College. The following course work is required:

- 78 credits of interior design major requirements
- 15 credits of interior design major electives; in addition to the courses shown below, students may select electives from Graphic & Communication Design. Six of the 15 credits are business-related electives; options include accounting, advertising, management, marketing, and finance
- 34 credits of college core requirements
- 3 credits of general electives

To complete the curriculum in four years, students must attend summer school or carry more than 15 hours a semester. (See Semester Credit Maximum for the College policy on overload.)

A Five-Year Extended Curriculum has been created for students who wish to pursue a minor (e.g., psychology, management, visual communications, etc.) or for those who enter with test scores that indicate an extended curriculum would be beneficial. Additionally, a Three-Year Accelerated Curriculum has been developed for mature students who transfer a significant number of credits (generally 30 or more) from another institution. Admittance into the Three-Year Accelerated Curriculum is by invitation only. All curriculum alternatives include the same interior design course work. Information about these various ways of completing the curriculum is available in the Interior Design Department.

**Requirements:**

In fulfilling the 78 credits of major requirements, students choose either ARTH1018 or another approved ARTH course.

Interior Design II	IDSN2038B
Interior Design III	IDSN3028B

**Interior Design Major Requirements: 78 credits**

History of Art II: Renaissance to Modern	ARTH1018
Interior Design Graphics I	IDSN1011
Interior Design I	IDSN1020
Interior Design Graphics II	IDSN1021
Drawing I	IDSN1023
Foundation Design I	IDSN1060
Foundation Design II	IDSN1062
Computer Graphics for Interior Design	IDSN2015
History of Interior Design and Architecture I	IDSN2032
Textiles for Interiors	IDSN2037
Interior Design II	IDSN2038A
History of Interior Design and Architecture II	IDSN2039
Building Technology I: Construction Systems	IDSN2044
Architectural Rendering	IDSN2045
Building Technology II: Finish Materials	IDSN2046
Interior Design III	IDSN3028A
History of Interior Design and Architecture III	IDSN3032
Building Technology III: Lighting and Electrical Systems	IDSN3040
Building Technology IV: Control Systems	IDSN3041
Business Practices for Interior Design	IDSN4041
Contract Documents	IDSN4042
Interior Design Internship I	IDSN4051
Senior Design Seminar I	IDSN4059
Senior Design Seminar II	IDSN4060

**Interior Design-Related Electives: 9 credits**

Art History Elective	ARTHXXXX
Design Elective	GCDNXXXX
Photography for Interiors	IDSN2035
Furniture & Custom Detailing	IDSN2048
Directed Study	IDSN2050
Study of Great American Houses	IDSN3015
Kitchen and Bath Design	IDSN3055
Advanced Ideas Seminar in Interior Design	IDSN3059
Directed Professional Experience	IDSN4000
Special Computer Topics in Interior Design	IDSN4050
Independent Study	IDSN4057
Portfolio Preparation	IDSN4058

**Visual Communication Minor**

A minor in Visual Communication will provide experiences directed toward the development of visual literacy: creative problem-solving and the design process, graphic techniques, visual language systems and the organization of visual elements. Especially useful to those students majoring in Marketing or Professional Writing, the Visual Communication minor will provide a practical mix of experiences complementing both verbal and visual communication.

The minor must be completed within the student's graduation timetable.

**The Visual Communication minor is available to all students except those pursuing the Graphic & Communication Design degree.**

A minimum of 18 credits, 6 courses, must be chosen from either of the following two sequences of art/design studio courses and MAC-based digital courses.

**Sequence A: Design Studio - Choose 9 credits**

The Creative Process	COMM4038
Drawing I	GCDN1023
Foundation Design I	GCDN1060
Foundation Design II	GCDN1062
Digital Photography	GCDN2016

**Sequence B: MAC-based digital courses - 9 credits**

Fundamentals of Electronic Publishing	GCDN1025
Computer Graphics I	GCDN1070
Computer Graphics II	GCDN1071
Interactive I	GCDN2029
Digital Prepress & Printing	GCDN3026

**Education & Nursing Division****Programs of Study****Majors**

Middle Level Education: English/Language Arts and Reading	BA
Middle Level Education: Mathematics	BA
Middle Level Education: Science	BA
Middle Level Education: Social Studies	BA
Middle Level Social Studies Education with Dual Major in History	BA
Middle Level Social Studies Education with Dual Major in Political Science	BA
Nursing - Associate of Science	Associate
Nursing - RN to BSN Degree Completion Program	BSN
PreK-4 Teacher Education/Special Education	BA

**Certificate Programs**

Nursing - Forensic Nursing Certificate Program	Certificate
Nursing - School Nurse Certificate Program	Certificate
PreK-8 Special Education	Certificate

**Graduate Programs**

Master of Science in Nursing  
 Master of Science in Nursing - Nursing Administration  
 Master of Science of Nursing - Nursing Education

**Detail - Education & Nursing Division****Middle Level Education: English/Language Arts and Reading**

A major in Middle Level English/Language Arts and Reading is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach the English/Language Arts and Reading content area at the 7th-8th grade level. For state certification, students must meet all competency standards set by the Pennsylvania Department of Education. To successfully complete the Middle Level English/Language Arts and Reading Certification major, the following coursework is required:

- 40 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 127 credits are required for degree, the last 30 of which must be earned at La Roche College. Developmental coursework does not count towards the minimum number of credits required for graduation.

**Education Requirements: 47 credits**

ML Teaching Science Methods Lab	EDML2010
ML Teaching Mathematics Methods Lab	EDML2023
Developing Reading Communities	EDML3010
ML Teaching Social Studies Methods Lab	EDML3013
Reading and Writing Across the Disciplines	EDML3050
Advanced Teaching Methods for Middle Level	EDML4010
ML Student Teaching (Grades 4-6)	EDML4050
ML Student Teaching (Grades 7-8)	EDML4055
Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Learning Environments, Classroom Behavior Management, Accommodations and Adaptations	EDSP2025
Evaluation and Authentic Assessment within a Standards Aligned System	EDSP3040
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
Introduction to Education	EDUC1010
Introduction to Psychology	PSYC1021
Adolescence Psychology	PSYC2040
Educational Psychology	PSYC2061

**Major Requirements: 40 credits**

Macroeconomics	ADMG1005
Life Science	BIOL1001
Methods of Teaching Writing: Composition	ENGL1050
Introduction to Literary Study	ENGL2010
World Literature I	ENGL2021
Issues in American Literature I	ENGL2036
Shakespeare on Film	ENGL3021

Geography and World Affairs	GEOG3013
Probability and Statistics	MATH1040
Mathematics for the Liberal Arts	MATH2000
Geometry and Measurement	MATH2023
Geology	NSCI2045
American Government	POLI1022
Introduction to Physical Science: Motion, Matter and Mind	SLSC1006

### **Middle Level Education: Mathematics**

A major in Middle Level Mathematics is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach mathematics at the 7th-8th grade level.

To successfully complete the Mathematics Certification major, the following coursework must be completed:

- 41 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 128 credits are required for degree, the last 30 of which must be completed at La Roche College. Developmental coursework does not count toward the minimum number of required credits for graduation.

### **Education Requirements: 47 credits**

ML Teaching Science Methods Lab	EDML2010
ML Teaching Mathematics Methods Lab	EDML2023
Developing Reading Communities	EDML3010
ML Teaching Social Studies Methods Lab	EDML3013
Reading and Writing Across the Disciplines	EDML3050
Advanced Teaching Methods for Middle Level	EDML4010
ML Student Teaching (Grades 4-6)	EDML4050
ML Student Teaching (Grades 7-8)	EDML4055
Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Learning Environments, Classroom Behavior Management, Accommodations and Adaptations	EDSP2025
Evaluation and Authentic Assessment within a Standards Aligned System	EDSP3040
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
Introduction to Education	EDUC1010
Introduction to Psychology	PSYC1021
Adolescence Psychology	PSYC2040
Educational Psychology	PSYC2061

### **Major Requirements: 41 credits**

Macroeconomics	ADMG1005
Life Science	BIOL1001
Geography and World Affairs	GEOG3013
Trigonometry	MATH1023
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Mathematics for the Liberal Arts	MATH2000
Geometry and Measurement	MATH2023
Discrete Mathematics I	MATH2050
Geology	NSCI2045
American Government	POLI1022
Introduction to Physical Science: Motion, Matter and Mind	SLSC1006

### **Middle Level Education: Science**

A major in Middle Level Science is meant to prepare students for a career as highly qualified teacher education candidates skilled to teach any core subject at the 4th-6th grade level and skilled to teach Science content at the 7th-8th grade level. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education.

To successfully complete the Middle Level Science Certification major, the following coursework is required:

- 45 credits of Major Requirements
- 47 credits of Education Requirements
- 37 CORE credits
- A minimum of 129 credits are required for degree, the last 30 of which must be completed at La Roche College. Developmental coursework does not count towards the minimum number of credits required for graduation.

### **Education Requirements: 47 credits**

ML Teaching Science Methods Lab	EDML2010
ML Teaching Mathematics Methods Lab	EDML2023
Developing Reading Communities	EDML3010
ML Teaching Social Studies Methods Lab	EDML3013
Reading and Writing Across the Disciplines	EDML3050
Advanced Teaching Methods for Middle Level	EDML4010
ML Student Teaching (Grades 4-6)	EDML4050
ML Student Teaching (Grades 7-8)	EDML4055
Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Learning Environments, Classroom Behavior Management, Accommodations and Adaptations	EDSP2025
Evaluation and Authentic Assessment within a Standards Aligned System	EDSP3040
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
Introduction to Education	EDUC1010
Introduction to Psychology	PSYC1021
Adolescence Psychology	PSYC2040
Educational Psychology	PSYC2061

### **Major Requirements: 45 credits**

Macroeconomics	ADMG1005
General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
General Ecology	BIOL3015
General Ecology-Lab	BIOL3015L
Principles of Chemistry I	CHEM1007
Principles of Chemistry I-Lab	CHEM1008
Principles of Chemistry II	CHEM1017
Principles of Chemistry II-Lab	CHEM1018
Geography and World Affairs	GEOG3013
Probability and Statistics	MATH1040
Mathematics for the Liberal Arts	MATH2000
Geometry and Measurement	MATH2023
Geology	NSCI2045
Physics for Health Sciences	PHYS1010
Physics for Health Science-Lab	PHYS1010L
American Government	POL11022

### **Middle Level Education: Social Studies**

A major in Middle Level Social Studies is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach Social Studies at the 7th-8th grade level. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education.

To successfully complete the Middle Level Social Studies Certification major, the following coursework is required:

- 39 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 126 credits are required for a degree, the last 30 of which must be completed at La Roche College. Developmental coursework does not count towards the required number of credits for graduation.

### **Education Requirements: 47 credits**

ML Teaching Science Methods Lab	EDML2010
ML Teaching Mathematics Methods Lab	EDML2023
Developing Reading Communities	EDML3010
ML Teaching Social Studies Methods Lab	EDML3013
Reading and Writing Across the Disciplines	EDML3050
Advanced Teaching Methods for Middle Level	EDML4010
ML Student Teaching (Grades 4-6)	EDML4050
ML Student Teaching (Grades 7-8)	EDML4055
Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Learning Environments, Classroom Behavior Management, Accommodations and Adaptations	EDSP2025
Evaluation and Authentic Assessment within a Standards Aligned System	EDSP3040
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
Introduction to Education	EDUC1010
Introduction to Psychology	PSYC1021
Adolescence Psychology	PSYC2040
Educational Psychology	PSYC2061

**Major Requirements: 39 credits**

Macroeconomics	ADMG1005
Life Science	BIOL1001
Geography and World Affairs	GEOG3013
U.S. History: The Foundation of a Republic (1600-1865)	HIST1010
Non-US History 2000 or 3000 level course	HIST2XXX OR 3XXX
Non-US History 2000 or 3000 level course	HIST2XXX OR 3XXX
2000-3000 Level History(HS) Course	HISTXXXX
Probability and Statistics	MATH1040
Mathematics for the Liberal Arts	MATH2000
Geometry and Measurement	MATH2023
Geology	NSCI2045
American Government	POLI1022
Introduction to Physical Science: Motion, Matter and Mind	SLSC1006

**Middle Level Social Studies Education with Dual Major in History**

A dual major in Middle Level Social Studies and History is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach Social Studies content area in the 7th-8th grade level. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education. In addition to the required courses for the Middle Level Social Studies certification, students can complete nine more credits to receive a dual major with History. Students then elect to pursue secondary teaching certification (7th-12th grade) in History.

To complete a dual major with History and Middle Level Social Studies Certification, the following coursework is required:

- 48 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 135 credits are required for degree, the last 30 of which must be earned at La Roche College

**Education Requirements: 47 credits**

ML Teaching Science Methods Lab	EDML2010
ML Teaching Mathematics Methods Lab	EDML2023
Developing Reading Communities	EDML3010
ML Teaching Social Studies Methods Lab	EDML3013
Reading and Writing Across the Disciplines	EDML3050
Advanced Teaching Methods for Middle Level	EDML4010
ML Student Teaching (Grades 4-6)	EDML4050
ML Student Teaching (Grades 7-8)	EDML4055
Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Learning Environments, Classroom Behavior Management, Accommodations and Adaptations	EDSP2025
Evaluation and Authentic Assessment within a Standards Aligned System	EDSP3040
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
Introduction to Education	EDUC1010
Introduction to Psychology	PSYC1021
Educational Psychology	PSYC2061

**Major Requirements: 48 credits (Includes 12 credits of 2000 or 3000 level History electives- 6 credits US History and 6 credits Non-US History)**

Macroeconomics	ADMG1005
Life Science	BIOL1001
Geography and World Affairs	GEOG3013
U.S. History: The Foundation of a Republic (1600-1865)	HIST1010
Western Civilization I	HIST1013
2000-3000 Level History(HS) Course	HISTXXXX
Probability and Statistics	MATH1040
Mathematics for the Liberal Arts	MATH2000
Geometry and Measurement	MATH2023
Geology	NSCI2045
American Government	POLI1022
Introduction to Physical Science: Motion, Matter and Mind	SLSC1006

**Middle Level Social Studies Education with Dual Major in Political Science**

A dual major in Middle Level Social Studies and Political Science is meant to prepare students for a career as a highly qualified teacher education candidate skilled to teach any core subject at the 4th-6th grade level and skilled to teach Social Studies content area in the 7th-8th grade level. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education. In addition to the required courses for Middle Level Social Studies certifications, students can complete nine more credits to receive a dual major with Political Science. Students may elect to pursue secondary teaching certification (7th-12th grade) in Social Studies content areas.

To successfully complete a dual major with Political Science and Middle Level Social Studies Certification, the following coursework is required:

- 48 credits of Major Requirements
- 47 credits of Education Requirements
- 40 CORE credits
- A minimum of 135 credits are required for degree, the last 30 of which must be earned at La Roche College.

#### **Education Requirements: 47 credits**

ML Teaching Science Methods Lab	EDML2010
ML Teaching Mathematics Methods Lab	EDML2023
Developing Reading Communities	EDML3010
ML Teaching Social Studies Methods Lab	EDML3013
Reading and Writing Across the Disciplines	EDML3050
Advanced Teaching Methods for Middle Level	EDML4010
ML Student Teaching (Grades 4-6)	EDML4050
ML Student Teaching (Grades 7-8)	EDML4055
Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Learning Environments, Classroom Behavior Management, Accommodations and Adaptations	EDSP2025
Evaluation and Authentic Assessment within a Standards Aligned System	EDSP3040
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
Introduction to Education	EDUC1010
Introduction to Psychology	PSYC1021
Educational Psychology	PSYC2061

#### **Major Requirements: 48 credits (Includes 1 HIST or POLI course from the "American" section and 2 HIST or POLI courses from the "Comparative" section of the Political Science Major Program Guide)**

Macroeconomics	ADMG1005
Life Science	BIOL1001
Geography and World Affairs	GEOG3013
U.S. History: The Foundation of a Republic (1600-1865)	HIST1010
Probability and Statistics	MATH1040
Mathematics for the Liberal Arts	MATH2000
Geometry and Measurement	MATH2023
Geology	NSCI2045
American Government	POLI1022
History of Political Thought	POLI3015
Comparative Government	POLI3021
Any Approved Political Science Course	POLIXXXX
Introduction to Physical Science: Motion, Matter and Mind	SLSC1006

#### **Nursing - Associate of Science**

[Nursing Department Website](#)



[ASN Student Handbook](#)

The Associate of Science in Nursing (ASN) Program at La Roche College provides a pathway for students who want to become registered nurses. The Department of Nursing faculty have developed a curriculum that will give students the theoretical and practical knowledge they will need to work in a variety of health care settings, including hospitals, clinics, community health care sites and other facilities. Faculty believe that the curriculum of this nursing program will prepare graduates to serve as entry level staff nurses within the health care community.

#### **PURPOSE**



The purpose and philosophy of the ASN program are consistent with the mission of the college and philosophy and goals of the nursing division.

Nursing is a profession in evolution concerned with the health care of persons and their families within the larger context of community and society. Currently, nursing care needs are addressed by nurses at a variety of levels of educational preparation.

The purpose of this ASN program is to prepare graduates to sit for the NLCEX-RN and to perform as entry level nurse generalists in a variety of settings. Graduates are provided the knowledge base for continued professional growth.

### **Retention of Nursing Students**

In order to continue in the Nursing program, students must maintain a minimum cumulative GPA of 2.0.

- A grade of "C" or better is required in all nursing courses (at least 73%).
- A grade of "C" or better is required in the following support courses: BIOL1023 & 1024 (Anatomy and Physiology I & II), BIOL1015 (Microbiology for Health Sciences), NSCI1010 (Normal & Clinical Nutrition)

### **Requirements for Admission to the Nursing Program**

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The applicant interested in entering the Nursing program must meet the following requirements and submit all the requested materials at one time to the appropriate admissions office by May 1.

1. ASN admission requirements for any student without prior college credits. Applicants would need to apply directly to Freshman Admissions. Applicants must meet the following eligibility criteria:

a. An official high school transcript or proof of General Equivalency Diploma (GED) high school equivalency.

b. successful completion of a minimum of 16 Units including

- 4 units of English
- 1 Unit in Biology with related laboratory
- 3 Units in Social Science
- 1 Unit in Chemistry with related laboratory
- 2 Units in Mathematics
- 5 Units in academic electives
- 1 Unit must be in Algebra

c. Applicants from high school must have a minimum 3.25 grade point average (on a 4.0 scale)

d. Students who have graduated from high school within five years of application date must have an SAT minimum composite score of 1000 (a minimum SAT verbal of 500 preferred) or an ACT score of 23. A student who has graduated from high school over five years from the date of his/her La Roche College application will not be required to take the SAT or ACT.

e. Completion of the TEAS exam (Test of Essential Academic Skills) with required score. Each applicant is permitted to take this exam only one time in order to be considered for admission. For an explanation of the TEAS exam and registration, [CLICK HERE](#)

f. Mathematics and English classes will depend on placement testing scores and high school GPAs. Placement exams will be waived if the applicant has a bachelor's degree or associate's degree with a minimum GPA of 3.0

g. Completion of chemistry is required prior to acceptance to the Nursing Program. Acceptable chemistry courses include one unit of high school chemistry with a grade of "B" or better or a grade of "C" or better in a four hour college chemistry course (CHEM1001/CHEM1003 or equivalent). Any chemistry course must have been taken within ten years of application date to La Roche College. If it has been more than ten years, a chemistry course must be taken prior to admission to the program. The prerequisite of chemistry may be waived for the applicant with a degree in science or health related fields, as determined by the Nursing Department.

2. ASN admission requirements for transfer and adult students. Applicants would need to apply directly to The Graduate Studies and Adult Education Office. Applicants must meet the following eligibility criteria:

a. Transfer or adult students must have a minimum cumulative GPA of 3.0 from a transfer institution.

b. Applicants must have achieved a passing grade of a "C" or better in all related science courses.

c. Applicants must have achieved a grade of a "B" or better in a high school chemistry course or a grade of a "C" or better in a college chemistry course (within the last 10 years) or completion of ABC Chemistry with a grade of at least a "B".

d. Transfer credits taken in the sciences BIOL1023 and BIOL1024 (Anatomy and Physiology I and II), BIOL1015 (Microbiology for Health Sciences), and NSCI1025 (Normal and Clinical Nutrition) must be taken within the last five years at the time of application to meet the requirements for the Associate of Science in Nursing degree.

e. Completion of the TEAS (Test of Essential Academic Skills) with required score. Each applicant is permitted to take this exam only one time in order to be considered for admission. For an explanation of the TEAS exam and registration, [CLICK HERE](#)

**\*\*Nursing Courses from other programs will not be accepted as transfer credits.**

3. International Students: Applicants would need to apply directly to the Graduate Studies and Adult Education Office. Applicants must meet the following criteria:

a. Students are admitted as "Undeclared Major"

b. Completed college placement and ESL (confirmation in writing from ESL faculty that student has completed all ESL requirements).

c. Applicants must have achieved a grade of "B" or better in a high school chemistry course or a grade of "C" or better in a college chemistry course (within the last ten years) or completion of ABC Chemistry with a grade of at least a "B".

d. Completion of the TEAS exam (Test of Essential Academic Skills) with required score. Each applicant is permitted to take this exam only one time in order to be considered for admission. For an explanation of the TEAS exam and registration, [CLICK HERE](#)

### **Admissions Processes (For All Students)**

Initial admission to the nursing program is in the **Fall Semester** only. All applications for the Nursing program must be received by May 1. Applications received after the deadline may be considered on an individual basis with exceptional circumstances.

The applicant must meet all admission requirements as stated and the following materials must be submitted for review:

- Completed La Roche College Application
- Application Fee
- High School/College/Nursing program transcripts (as applicable)
- Results of TEAS exam
- Two letters of reference
- Personal Essay: "Why I want to be a nurse?"
- CPR Certification (LPN advanced standing student)

**Once accepted into the Associate of Science in nursing program, students must meet the health requirements before enrolling in any nursing courses. The health requirement forms will be sent to prospective students with their acceptance letter.**

The health requirements include:

1. A physical examination is required. For patient safety, clinical facilities utilized by the Department of Nursing require proof of a satisfactory physical exam and current proof of immunizations. For assurance of patient safety, an initial drug screen is required and a random drug screen may be required at any point during the program.
2. An FBI and criminal background check are both required\*
3. Child Abuse clearance is required\*
4. Serum Drug Screening is required\*
5. The applicant must submit documentation of the following:

- Annual TB skin test (an initial two step skin test), if positive then a chest x-ray is required
- Hepatitis B vaccine and immune status or evidence of initiation of series
- Hepatitis C immune status
- Documented history of Varicella or Varicella titer
- MMR immunization/Rubella Titer
- Tdap (Tetanus, Diphtheria, and Pertussis)Vaccine
- Any other diagnostic tests or examinations, which are deemed for the promotion of good health by a health care provider.
- Students are encouraged to obtain the influenza immunization

**\*\*[Click here for link to background check instructions](#)**

Once all documentation is obtained, all forms should be returned to nursing department staff/faculty.

Students who fail to provide written documentation of the mandatory health requirements will not be permitted in any clinical area.

Faculty reserve the right to recommend a student's withdrawal from the program for reasons of health.

Each student is responsible for:

- Personal health insurance coverage
- Maintenance of good health practices and utilizing preventative care in common illnesses
- Reporting any health concern to the Department of Nursing (including pregnancy) that could affect personal or client health safety.

### **Year I - Fall Semester**

Microbiology for Health Sciences	BIOL1015
Microbiology for Health Sciences-Lab	BIOL1015L
Human Anatomy & Physiology I	BIOL1023
Human Anatomy & Physiology I-Lab	BIOL1023L
Practical Computer Applications	ISTC1005
Introduction to Nursing	NURU1000
Foundations of Clinical Nursing	NURU1005
Foundations of Clinical Nursing Clinical	NURU1005C

### **Year I - Spring Semester**

Human Anatomy & Physiology II	BIOL1024
Human Anatomy & Physiology II-Lab	BIOL1024L
Normal and Clinical Nutrition	NSCI1025
Medical-Surgical Nursing of the Adult I	NURU2000
Medical Surgical Nursing of the Adult I Clinical	NURU2000C
Medical Surgical Nursing of the Adult I Lab	NURU2000L

**Year I - Summer Semester**

College Writing I  
 Mental Health Nursing  
 Mental Health Nursing Clinical  
 Introduction to Psychology

ENGL1011  
 NURU2010  
 NURU2010C  
 PSYC1021

**Year II - Fall Semester**

College Writing II  
 Childbearing and Women's Health Nursing  
 Childbearing and Women's Health Nursing Clinical  
 Nursing of Children  
 Nursing of Children Clinical  
 Medical-Surgical Nursing of Adult II  
 Medical Surgical Nursing of the Adult II Clinical

ENGL1012  
 NURU2012  
 NURU2012C  
 NURU2015  
 NURU2015C  
 NURU2121  
 NURU2121C

**Year II - Spring Semester**

High Acuity Nursing  
 High Acuity Nursing Clinical  
 A Cognitive Approach to Clinical Reasoning in Nursing  
 Transition from Student to Graduate Nurse  
 Transition from Student to Graduate Nurse Clinical  
 Philosophy Elective

NURU2025  
 NURU2025C  
 NURU2027  
 NURU2030  
 NURU2030C  
 PHILXXXX

**Nursing - RN to BSN Degree Completion Program**

- [Nursing Department Website](#)
- [BSN Online Orientation](#)
- [BSN Student Handbook](#)

The baccalaureate program is designed to offer registered nurse students (graduates from diploma and associate degree programs) the opportunity to complete a professional degree that focuses on the scholarly approach to the discipline of nursing. This is an 18-month **online** program. The baccalaureate program provides a foundation for graduate education in nursing. The bachelor of science degree program for registered nurses is accredited by the Accreditation Commission for Education in Nursing, INC. (ACEN), formerly the National League of Nursing Accrediting Commission (NLNAC), 3343 Peachtree Road NE, Suite 500, Atlanta, GA 30326, 404-975-5000.

**Students Admitted to the Current/Revised Curriculum**

The program is open only to registered nurses and requires 120 credits for graduation. To complete the nursing major successfully, the following course work is required:

- 24 prerequisite credits which must include 12 science credits
- 36 credits Nursing Mobility Profile II (NCLEX)
- 30 liberal arts credits
- 30 nursing component credits (18 credits of which are required; 12 credits of nursing electives)

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College. Students must achieve a minimum of a "C" grade in each nursing course.

## RN-MSN Program

The RN-MSN option provides an opportunity for associate degree and diploma prepared nurses to obtain the MSN. The program is entirely **online** and allows nurses interested in advance roles to move more directly into such positions as nurse administrator or nurse educator.

The advantage to enrolling in the RN-MSN is the credits required in the BSN are decreased and the transition to MSN is quicker. The BSN degree curriculum is reduced by two elective courses and the student is able to take two graduate courses at the undergraduate tuition rate. Students may take graduate courses as they complete the BSN requirements.

The Bachelor of Science in Nursing is awarded upon the successful completion of 6 credits of graduate level courses.

### College or Diploma Program Credits / Prerequisites (24 credits required, 12 must be natural science credits)

Microbiology for Health Sciences	BIOL1015
Human Anatomy & Physiology I	BIOL1023
Human Anatomy & Physiology I-Lab	BIOL1023L
Human Anatomy & Physiology II	BIOL1024
Human Anatomy & Physiology II-Lab	BIOL1024L
Principles of Chemistry I	CHEM1007
College Writing I	ENGL1011
College Writing II	ENGL1012
Introduction to Psychology	PSYC1021
Race, Class, Gender: An Introduction to Sociology	SOCL1021

### Liberal Arts Component -- Lower Division Courses: 15 credits

Fundamentals of Management	ADMG1018
Practical Computer Applications	ISTC1005
Probability and Statistics	MATH1040
Introduction to Philosophy	PHIL1021
Select Aesthetics	SLAE

### Liberal Arts Component -- Upper Division Courses: 15 credits

Literature Elective	ENGL3XXX
Global/Community Course	GLBL/COMM
General Elective	GNRLXXXX
History Elective	HIST3XXX
Biomedical Ethics	PHIL3027

### Nursing Component Required Courses: 18 credits required

Health Assessment in Nursing Practice	NURU3020
Leadership in Nursing	NURU3021
Health Teaching	NURU3022
Nursing Research I	NURU3023
Current Issues in Nursing	NURU4020
Community Nursing I	NURU4021

### Nursing Component: Select 12 credits from the following electives

Nursing During Acute Illness	NURU3024
Nursing of the Adolescent	NURU3025
Mental Health Nursing	NURU3027
Overview of Gerontological Nursing	NURU3028
Introduction to Nursing Informatics	NURU4012

Nursing Research II	NURU4023
Healing in Nursing Practice	NURU4024
Legal Aspects of Nursing Practice	NURU4026
Health Care for Women	NURU4027
Community Nursing II	NURU4029
Nursing Practice with the Fatally Ill	NURU4032
Family Health Nursing	NURU4036
Health Care for Men	NURU4037
Nursing Elective	NURUXXXX

### **PreK-4 Teacher Education/Special Education**

A major in PreK-4th/Dual Certification is meant to prepare students for a career as a highly qualified PreK-4 Elementary Education teacher with dual certification in Special Education. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education.

To successfully complete the PreK-4/Dual Certification major, the following coursework is required:

- 15 credits of Major Requirements
- 83 credits of Education requirements
- 40 CORE credits
- A minimum of 138 credits are required for the degree, the last 30 of which must be completed at La Roche College. Developmental coursework does not count towards the minimum number of credits required for graduation.

### **Education Requirements: 83 credits**

Orientation to PreK-4 Education	EDEL2000
Observation I (PreK)	EDEL2010
Observation II (Kdg-4)	EDEL2020
Methods of Teaching Health and Physical Education PreK-4th Grade	EDEL2030
Creative Thinking: Methods of Integrating Art and Music Throughout the PreK-4 Curriculum	EDEL3015
Methods of Teaching Writing PreK-4th Grade	EDEL3025
Methods of Teaching Reading PreK-4th Grade	EDEL3035
Teaching Reading and Language Arts Practicum PreK-4th Grade	EDEL3045
Methods of Teaching Social Studies PreK-4th Grade	EDEL3055
Methods of Teaching Science PreK-4th Grade	EDEL4035
Methods of Teaching Math PreK-4th Grade	EDEL4040
Teaching Math Practicum PreK-4th Grade	EDEL4045
Integrating Curriculum and Instruction	EDEL4060
PreK-4 Teacher Education/Special Education	EDEL4085
Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Learning Environments, Classroom Behavior Management, Accommodations and Adaptations	EDSP2025
Introduction to Low Incidence Disabilities, Methods and Practicum	EDSP3015
Effective Instructional Strategies for Students with Disabilities	EDSP3025
Specialized Instructional Planning, Accommodations, Adaptations and Field Experience	EDSP3035
Evaluation and Authentic Assessment within a Standards Aligned System	EDSP3040
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
Special Education Student Teaching and Seminar	EDSP4065
Introduction to Education	EDUC1010
Introduction to Psychology	PSYC1021
Child Development	PSYC2022
Educational Psychology	PSYC2061

### **Major Requirements: 15 credits**

Life Science	BIOL1001
Geography and World Affairs	GEOG3013
U.S. History: The Foundation of a Republic (1600-1865)	HIST1010
Mathematics for the Liberal Arts	MATH2000
Family Relations	SOCL3027

### **Nursing - Forensic Nursing Certificate Program**

#### [Nursing Department Website](#)

The Forensic Nursing Certificate is open to registered nurses and is offered in conjunction with the Criminal Justice program. Forensic nursing is the application of nursing science combined with the bio-psycho-social education of the registered nurse in the scientific investigation and treatment of trauma and/or death of victims and perpetrators of abuse, violence, criminal activity and traumatic accidents. Forensic nurses practice in a variety of settings including but not limited to hospitals, clinics, legal affiliations, law enforcement agencies, and correctional facilities. This certificate will prepare the registered nurse to assume a novice role as a forensic nurse.

#### **Certification**

Each student must complete the admissions requirements for forensic nurse certification. The courses for this program must be taken in sequence,

though the last two may be taken concurrently.

The following courses comprise the certificate program:

**Required Courses: 10 credits**

Introduction to the Criminal Justice System  
Crime Scene & Forensics Laboratory  
Foundations of Forensic Nursing

CRIM1001  
CRIM3040  
NURU4040

**Nursing - School Nurse Certificate Program**

**Certificate Program:**

**The School Nurse Certification program has been revised in accordance with the new Act 49 guidelines and has been approved by the Pennsylvania Department of Education. We are accepting applications for a new class to begin in January 2013.**

[Nursing Department Website](#)

The School Nurse Certificate Program is open to registered nurses who have earned a BSN degree and to students who are currently enrolled in La Roche College's BSN Degree Completion Program.

This program is offered by the Department of Nursing in conjunction with the Teacher Education Department at La Roche College. This program is designed for the professional nurse who desires to focus on the health care needs of children in the school setting. The school nurse may practice in school-based, school-linked or collaborative school health programs. This program is approved by the Pennsylvania Department of Education.

**Certification as a School Nurse**

Each student must complete the requirements for school nurse certification. The school nurse certificate will then be issued by the Pennsylvania Department of Education. The program can be completed as part of the BSN degree program with the addition of EDSP2015, EDSP3015, EDSP4015 and MLED2000. The program can also be completed by the student who already holds a BSN or MSN degree. The applicant's transcript will be evaluated and analyzed for congruence with the program objectives and standards set forth by the Pennsylvania Department of Education. If all prerequisites are met, the applicant may then be granted full admission to the program. The program may be completed in sixteen credits (five courses and one practicum experience). If additional course work is required, the applicant will be granted provisional status until prerequisites are met.

**Program Requirements**

The courses for the certificate program are to be taken in sequence. All courses in the School Nurse Certificate Program must be taken at La Roche College.

- EDSP2015 Introduction to High Incidence Disabilities (three credits)
- EDSP3015 Low Incidence Disabilities (three credits)
- EDSP4015 Developing the IEP (three credits)
- MLED2000 Meeting the Instructional Needs of English Language Learners (three credits)



- NURU4030 School Nurse: Child Health in an Inclusive Setting (four credits)

The State of Pennsylvania requires a 100-hour practicum with a certified school nurse. This practicum will be arranged during the NURU4030 Child Health and the School Nurse course. Practicum experiences are contracted with the school and preceptor by the Teacher Education Division. This experience enables the student to meet the standards set for the School Nurse Certificate Program by the Pennsylvania Department of Education.

### **PA Department of Education Requirements:**

All candidates for school nurse certification must also complete the following requirements prior to admission to the program:

- 3 credits college level English Composition
- 3 credits college level English Literature
- 3 credits college level Math (college level algebra or higher)
- 3 credits college level math (higher than college level algebra)

### **Admission Requirements**

#### **Post BSN or Post MSN Students:**

Applicants who have an earned BSN or MSN degree and seek admission to the School Nurse Certificate Program must:

- Submit completed application along with the \$50 application fee
- Provide official transcripts from all colleges and universities attended
- Have a cumulative QPA of at least 3.0
- Obtain Criminal Background and Child Abuse Clearances (Act 33 and 34 clearance). Visit the La Roche College Cx background clearances website by [CLICKING HERE](#).
- Submit a personal essay that addresses the reasons for seeking school nurse certification and a statement of future professional goals
- Have a minimum of one or two years nursing experience: pediatrics, maternal-child or trauma/ER nursing preferred
- Submit copies of current Pennsylvania RN license, CPR certification, professional liability insurance and completed Department of Nursing health requirements

#### **Currently Enrolled BSN Students:**

Students who are currently enrolled in the RN-BSN Completion Program at La Roche College and who apply to the Certificate Program must:

- Submit completed application (\$50 application fee waived)
- Have a cumulative QPA of at least 3.0.
- Obtain Criminal Background and Child Abuse Clearances (Act 33 and 34 clearance). Visit the La Roche College Cx background clearances website by [CLICKING HERE](#).

- Submit a personal essay that addresses the reasons for seeking school nurse certification and a statement of future professional goals
- Have a minimum of one or two years nursing experience: pediatric, maternal-child, or trauma/ER nursing preferred
- Complete all program prerequisites, liberal arts courses and all required nursing courses
- Submit copies of current Pennsylvania RN license, CPR certification, professional liability insurance and completed Department of Nursing health requirements

#### **Entrance Criteria:**

- Current PA RN License
- BSN transcript with cumulative QPA of 3.0
- Professional experience (1-2 years)
- Act 33 and 34 clearances (apply for)

After acceptance, before beginning coursework:

- Current Act 33 and 34 clearances
- Current CPR certification

For NURU4030 -- completion of Department of Nursing health requirements and RN student professional liability insurance.

#### **Exit Criteria**

- Successful completion of Education courses (minimum C grade)
- Successful completion of NURU4030 and the 100 hour practicum (minimum C grade)
- Satisfactory attainment of practicum objectives
- Successful achievement of school nurse end-of-program objectives.
- Cumulative GPA of 3.0

#### **End of Program Objectives School Nurse Certificate Program**

Upon completion of the School Nurse Certificate Program, the student will be able to:

- Utilize the knowledge base for critical thinking and decision making in nursing practice.
- Utilize a systematic approach to problem-solving in nursing practice.
- Assess, plan and provide appropriate nursing care for children and evaluate the identified outcomes of care.
- Utilize effective written, verbal, and nonverbal communication skills.
- Demonstrate the knowledge and skills necessary to establish and maintain a comprehensive school health program.
- Collaborate with other school professionals, parents and caregivers to meet the health, developmental and educational needs of clients.
- Collaborate with members of the community in the delivery of health and social services, and utilize knowledge of community health systems and resources to function as a school-community liaison.
- Assist students, families and the school community to achieve optimal levels of wellness through appropriately designed and delivered health education.
- Contribute to nursing and school health through innovations in practice and participation in research or research-related activities.
- Identify, delineate and clarify the nursing role, promote quality of care, pursue continued professional enhancement and demonstrate professional conduct.

#### **Required Courses: 16 credits**

Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Introduction to Low Incidence Disabilities, Methods and Practicum	EDSP3015
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
English Language Learners in the Multicultural Classroom	MLED2000
School Nurse: Child Health in an Inclusive Setting	NURU4030

#### **PreK-8 Special Education**

##### [Education Department Website](#)

The Special Education Certificate provides teacher education candidates with the opportunity to seek dual certification in Special Education. Special Education Certification is embedded in the PreK-4 program at LaRoche, and is an add-on option for the Middle Level and English Education programs at LaRoche. For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education.

To successfully complete the Special Education Certificate, 30 credits of coursework are required.

#### **Required Courses:**

Introduction to High Incidence Disabilities, Accommodations and Adaptations	EDSP2015
Learning Environments, Classroom Behavior Management, Accommodations and Adaptations	EDSP2025
Introduction to Low Incidence Disabilities, Methods and Practicum	EDSP3015
Effective Instructional Strategies for Students with Disabilities	EDSP3025
Specialized Instructional Planning, Accommodations, Adaptations and Field Experience	EDSP3035
Evaluation and Authentic Assessment within a Standards Aligned System	EDSP3040
Development of the IEP and Inclusion in Least Restrictive Environment	EDSP4015
Special Education Student Teaching and Seminar	EDSP4065
English Language Learners in the Multicultural Classroom	MLED2000

#### **Master of Science in Nursing**

### QUICK LINKS

- [Nursing Departmental Website](#)
- [MSN Online Orientation \(PDF\)](#)
- [MSN Student Handbook](#)
- [Health Care Background Checks](#)

The Master of Science in Nursing (MSN) program builds on the knowledge and competencies of baccalaureate education. Graduate courses focus on the development of scholarly, critical thinkers and leaders who develop the skills necessary to transform knowledge into advanced practice. Two specialty areas are offered: Nursing Administration or Nursing Education.

### ADMISSION REQUIREMENTS FOR MSN

All qualified candidates are invited to apply for admission to the graduate program in nursing. Applicants must show evidence of meeting the following minimum criteria:

- A baccalaureate degree in nursing from an NLNAC- or AACN-accredited program, or proof of equivalent from an international institution.
- A minimum undergraduate QPA of 3.0 on a 4.0 scale or resume support.
- Current licensure to practice nursing in a state or territory of the U.S.
- 1 year of nursing practice experience is required.
- Two letters of reference attesting to the applicant's potential for graduate study. At least one of these references should be from an academic source.
- A statement of personal goals demonstrating congruence with the purpose of the program and the specific area of study. The statement must demonstrate appropriate writing skills.
- A faculty member responsible for the specialization of interest will interview the candidate.

### ADMISSION OF INTERNATIONAL CANDIDATES

International students with English as a second language may apply for admission to the La Roche College MSN Program after completing one-two years of clinical work experience in a U.S. healthcare agency prior to or concurrent with the educational program.

Prospective students must have one-two years experience in a U.S. healthcare agency.

### **Master of Science in Nursing: Core Courses -- 18 credits**

Nursing Theory & Research	NURG5002
Role Development of the Nurse Administrator & Nurse Educator	NURG5013
Health Policy	NURG5020
Nursing Informatics for Nurse Administrators & Nurse Educators	NURG5033
Human Diversity & Social Issues in Nursing Administration & Nursing Education	NURG5035
Capstone Research Experience	NURG6000

### **Nursing Administration: Concentration Courses -- 18 credits**

Health Care Finance	NADM5000
Nursing Administration I: Theory, Concepts & Principles	NADM5017
Nursing Administration II	NADM5020
Nursing Administration II: Seminar & Practicum	NADM5025
Nursing Administration III	NADM6000
Nursing Administration III: Seminar & Practicum	NADM6025

### **Nursing Education: Concentration Courses -- 16 credits**

Assessment, Measurement & Evaluation of Learners	NEDG5000
Teaching & Learning: Strategies for the Classroom and Clinical Nursing Education	NEDG5002
Curriculum Design I: Development of Curriculum	NEDG5004
Curriculum Design II: Evaluation & Revision of Curriculum	NEDG5006
Nursing Education Teaching Practicum	NEDG5008

### **Master of Science in Nursing - Nursing Administration**

[Nursing Department Website](#)

## **Nursing Administration**

The 36-credit **on-line graduate program** in Nursing Administration prepares students for leadership positions in a variety of settings. The Nursing Administration specialization at La Roche College provides a unique opportunity for nurses to develop the specialized leadership skills required to be successful nurse leaders now and in the future. Today's health care environment requires strong leaders who can make a positive difference in organizational outcomes.

In the wake of a changing health care environment, the need for nursing leadership has continued to grow. Nursing roles are being redefined and expanded to include more managerial and administrative responsibilities. Leadership opportunities are extending beyond the traditional nursing setting. This specialty area prepares nurses to work effectively with other members of the health care team in the delivery of quality patient care. Students learn to analyze contemporary nursing leadership issues, to confidently participate in policy formation and decision making, and to gain valuable expertise in pertinent business disciplines. Courses required for the Nursing Administration Specialty are outlined below.

### **Fall Semester Year One:**

Nursing Theory & Research	NURG5002
Role Development of the Nurse Administrator & Nurse Educator	NURG5013
Nursing Informatics for Nurse Administrators & Nurse Educators	NURG5033

### **Fall Semester Year Two:**

Health Care Finance	NADM5000
Nursing Administration II	NADM5020
Nursing Administration II: Seminar & Practicum	NADM5025

#### **Spring Semester Year One:**

Nursing Administration I: Theory, Concepts & Principles	NADM5017
Health Policy	NURG5020
Human Diversity & Social Issues in Nursing Administration & Nursing Education	NURG5035

#### **Spring Semester Year Two:**

Nursing Administration III	NADM6000
Nursing Administration III: Seminar & Practicum	NADM6025
Capstone Research Experience	NURG6000

#### **Master of Science of Nursing - Nursing Education**

[Nursing Department Website](#)

#### **Nursing Education**

The 34-credit **on-line graduate program** in Nursing Education prepares students for educational positions in healthcare, health-related, and academic settings. The Nursing Education specialization at La Roche College provides an opportunity for nurses to develop the knowledge and skills essential to the role of nurse educator.

Recent reports have indicated an increased demand throughout the country for masters prepared nurse educators in academic settings. Nurse educators are also utilized throughout healthcare and health related fields. Students learn the components of educational theory and practice, develop courses and curriculum for nursing students and staff, learn classroom and clinical strategies, and practice the nurse educator role. Courses required for Nursing Education are outlined below.

#### **Fall Semester Year One:**

Nursing Theory & Research	NURG5002
Role Development of the Nurse Administrator & Nurse Educator	NURG5013
Nursing Informatics for Nurse Administrators & Nurse Educators	NURG5033

#### **Fall Semester Year Two:**

Teaching & Learning: Strategies for the Classroom and Clinical Nursing Education	NEDG5002
Curriculum Design I: Development of Curriculum	NEDG5004
Curriculum Design II: Evaluation & Revision of Curriculum	NEDG5006

#### **Spring Semester Year One:**

Assessment, Measurement & Evaluation of Learners	NEDG5000
Health Policy	NURG5020
Human Diversity & Social Issues in Nursing Administration & Nursing Education	NURG5035

#### **Spring Semester Year Two:**

Nursing Education Teaching Practicum	NEDG5008
Capstone Research Experience	NURG6000

**Humanities Divison****Programs of Study****Majors**

Communication, Media & Technology	BS
English Education - Language & Literature	BA
English Studies - Journalism and Professional Writing	BA
English Studies - Language & Literature	BA
Film, Video and Media	BA
History	BA
Liberal Studies	BA
Performing Arts - Dance Studio	BA
Political Science	BA
Professional Studies	BS
Psychology	BA
Religious Studies	BA
Sociology	BA

**Minors**

Ballet Performance Minor	Other
Communication, Media & Technology Minor	Other
English Studies: Professional Writing Minor	Other
French Minor	Other
History Minor	Other
Humanities Minor	Other
International Affairs Minor	Other
Literature Minor	Other
Philosophy Minor	Other
Psychology Minor	Other
Religious Studies Minor	Other
Sociology Minor	Other
Spanish Minor	Other
Women's / Gender Studies Minor	Other

**Certificate Programs**

Modern Language Certificate Program	Certificate
Parish Program Manager Certificate	Certificate
Professional Writing Certificate Program	Certificate

**Detail - Humanities Division****Communication, Media & Technology**[Communication, Media & Technology Department Website](#)

The Communication, Media and Technology Department prepares students for positions with video, television, radio, internet and other media organizations. With a strong background in communication, technology, computers, writing and message design, students who want to be writers, directors and producers of mass media can get their start in the department of Communication, Media and Technology. The program also offers significant background and experience in understanding the structure of computer-mediated communication and the ways that people communicate through the internet. For those from developing countries, Communication, Media and Technology is especially relevant in preparing students to help organize, plan and provide programming for media such as radio, television, internet and cable.

To complete the Communication, Media and Technology major successfully, the following course work is required:

- 51 credits of Major Requirements
- 37 credits required in the core curriculum
- 32 credits of general electives

**Basic Skills and Fundamental Knowledge Area: Select 9 credits**

Marketing Management	ADMG201
The Creative Process	COMM4038
Fundamentals of Electronic Publishing	GCDN1025
Computer Graphics II	GCDN1071
Interactive I	GCDN2029
Introduction to Cyberspace	ISTC2008
Advertising and Public Relations	MRKT2007
Race, Class, Gender: An Introduction to Sociology	SOCL1021

**Capstone Requirements: 6 credits**

Senior Capstone

CMET4050

Communication Internship I

CMET4051

**Communicating Effectively: Select 9 credits**

Creative Writing I

ENGL2040

Writing for Non-Profits

ENGL3042

Writing for Advertising and Media

ENGL3043

Modern Public Speaking

SPCH1001

Creative Dramatics

SPCH1022

Contemporary Communication Through Discussion

SPCH2002

**Communication, Media and Technology Electives: Select 6 credits**

Communication in Organizations

CMET2001

Message Design and Media

CMET3005

Special Topics

CMET3040

**Required Coursework: 21 credits**

Human Communication

CMET1001

Mass Media and Digital Communication

CMET1002

Communication Between Cultures

CMET2003

Communication Theory, Research and Criticism

CMET2005

New Media and Digital Communication Theory

CMET3002

Legal Issues of Media and Digital Communication

CMET4001

Broadcasting, Cable and New Media

CMET4002

**English Education - Language & Literature**[Education Department Website](#)

This program prepares the student for a career as a highly qualified English teacher at the secondary level (7th-12th grade). For state certification, students must meet all the competency standards set by the Pennsylvania Department of Education, including maintaining at 3.0 GPA.

To successfully complete the Secondary English Major, the following coursework is required:

- 33 English credits as listed under "Major Requirements"
- 18 Literacy Education Component credits
- 30 credits in Education
- 12 credits in Psychology and Mathematics coursework
- 34-37 CORE credits
- A minimum of 127 credits are required for a degree, the last 30 of which must be earned at La Roche College (developmental coursework does not count toward the minimum number of required credits for graduation.)

**Education Requirements: 30 credits**

Introduction to High Incidence Disabilities, Accommodations and Adaptations

EDSP2015

Learning Environments, Classroom Behavior Management, Accommodations and Adaptations

EDSP2025

Evaluation and Authentic Assessment within a Standards Aligned System

EDSP3040

Development of the IEP and Inclusion in Least Restrictive Environment

EDSP4015

Introduction to Education

EDUC1010

Secondary Student Teaching

ENED4051

English Language Learners in the Multicultural Classroom

MLED2000

**Literacy Education Component: 18 credits**

Developing Reading Communities

EDML3010

Reading and Writing Across the Disciplines

EDML3050

Advanced Teaching Methods for Middle Level

EDML4010

Methods of Teaching and Evaluating English

ENED3010

Adolescent Literature

ENED3030

Methods of Teaching Writing: Composition

ENGL1050

Creative Dramatics

SLAE1010

**Major Requirements: 33 credits**



Introduction to Literary Study	ENGL2010
World Literature I	ENGL2021
Issues in American Literature I	ENGL2036
Issues in American Literature II	ENGL2039
Shakespeare	ENGL3023
Introduction to Literary Theory & Criticism	ENGL3029
American English: Its History & Development	ENGL3033
Senior Seminar	ENGL4055
British Literature Course	ENGLXXXX
Film or Drama Course	ENGLXXXX
Writing Course beyond ENGL1012	ENGLXXXX

### **Mathematics Courses: 3 credits**

Mathematics for the Liberal Arts	MATH2000
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### **Psychology Courses: 9 credits**

Introduction to Psychology	PSYC1021
Adolescence Psychology	PSYC2040
Educational Psychology	PSYC2061

### **English Studies - Journalism and Professional Writing**

#### [English Department Website.](#)

The writing curriculum is designed to prepare students for careers in public relations, business communications and publications, advertising, writing, journalism and technical writing. To complete the professional writing major successfully, the following course work is required:

- 30 credits of English Writing Component courses
- 12 credits of Literature Component courses
- 15 credits of Professional Companion courses
- 15 Credits of Professional Focus credits selected in a discipline
- 37 credits of CORE Curriculum courses
- 12 credits of General Electives

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

### **Professional Focus: 15 Credits**

Consists of five courses chosen from the student's area of academic interest.

### **English Writing Component: 30 credits**

Business Communications	ENGL2029
Technical Writing	ENGL2030
Creative Non-Fiction: Special Topics	ENGL3012D
Journalism I	ENGL3031
Journalism II	ENGL3032
American English: Its History & Development	ENGL3033
Advanced Exposition	ENGL3037
Writing for Non-Profits	ENGL3042
Writing for Advertising and Media	ENGL3043
English Writing Internship	ENGL4051
Senior Seminar	ENGL4055

### **Literature Component: 12 credits**

Introduction to Literary Study	ENGL2010
Literature Elective	ENGL2XXX
Literature Elective	ENGL3XXX
Literature Elective	ENGL3XXX

### **Professional Companion: 15 credits**

New Media and Digital Communication Theory	CMET3002
Publication Design	ENGL3051
Fundamentals of Electronic Publishing	GCDN1025
Digital Photography	GCDN2016
Marketing Management	MRKT2021

## English Studies - Language & Literature

### [English Department Website.](#)

The English language and literature curriculum is designed to develop language skills and to teach analytical skills and research methods necessary in approaching English studies as a discipline. The program encourages an appreciation of cultural heritage through literary works and stimulates the imagination. This major prepares students for graduate school in English or library science, and for positions in government services and public relations.

To complete the Language & Literature major successfully, the following course work is required:

- 33 credits of Major Requirements
- 3 credits of Writing Skills Component
- 18-20 credits in either Literature, Language and Literature, or Literacy and Learning Focus Areas
- 34-37 credits of CORE Curriculum courses
- 32-35 credits of General Electives

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

### **Language and Literature Focus: includes 2 semesters of the same foreign language**

Literature Elective	ENGL3XXX
Literature Elective	ENGL3XXX
Writing Course beyond ENGL1012	ENGLXXXX
Writing Course beyond ENGL1012	ENGLXXXX

### **Literacy and Learning Focus**

Developing Reading Communities	EDML3010
Methods of Teaching and Evaluating English	ENED3010
Reading and Writing Across the Disciplines	ENED3014
Adolescent Literature	ENED3030
Methods of Teaching Writing: Composition	ENGL1050
English Language Learners in the Multicultural Classroom	MLED2000
Educational Psychology	PSYC2061

### **Literature Focus**

Literature Elective	ENGL2XXX
Literature Elective	ENGL3XXX
Literature Elective	ENGL3XXX
Writing Course beyond ENGL1012	ENGLXXXX
Writing Course beyond ENGL1012	ENGLXXXX
Film or Drama Course	ENGLXXXX

### **Major Requirements: 33 credits (includes one Writing Course beyond ENGL1012)**

Introduction to Literary Study	ENGL2010
Issues in American Literature I	ENGL2036
Issues in American Literature II	ENGL2039
World Mythology	ENGL3014
Shakespeare	ENGL3023
Introduction to Literary Theory & Criticism	ENGL3029
American English: Its History & Development	ENGL3033
Senior Seminar	ENGL4055
British Literature Course	ENGLXXXX
Film or Drama Course	ENGLXXXX

### **Film, Video and Media**

### [Communication, Media & Technology Department Website](#)

This cooperative program with Pittsburgh Filmmakers is meant to provide majors with the necessary background to pursue a career in any aspect of the film, video and media industries in activities ranging from writing and directing to editing, producing and animation.

To successfully complete the Film, Video and Media major, the following are required:

- 30 credits of Major Requirements
- 24 credits of Pittsburgh Filmmakers Required courses
- 18 credits of Pittsburgh Filmmakers Electives (to be chosen in consultation with academic advisor)
- 34 credits of CORE Curriculum courses
- 14 credits of General Electives

A minimum of 120 credits is required for degree, the last 30 of which must be completed at La Roche College.

**Major Requirements: 30 credits**

Human Communication	CMET1001
Mass Media and Digital Communication	CMET1002
Message Design and Media	CMET3005
Creative Writing I	ENGL2040
Film Analysis: Form, History, Ideology	ENGL2043
Writing for Television & Radio	ENGL3035
Fundamentals of Electronic Publishing	GCDN1025
Practical Computer Applications	ISTC1005
Introduction to Cyberspace	ISTC2008
Marketing Management	MRKT2021

**Pittsburgh Film Makers Requirements: 24 credits**

Photographic and Motion Pictures	FVMA1001
International Film History	FVMA1004
Film Production I	FVMA1006
Elements of Film	FVMA1007
Intro to Film Theory & Criticism	FVMA1010
Technical Directing	FVMA2025
Intro to Screenwriting	FVMA2028
Producing for Film and Video	FVMA3034

**History**[History Department Website](#)

The primary objective of the history program is to lead students to a global awareness as well as an understanding of their many heritages. The program also seeks to develop skills that will enable students to enter a variety of professions such as law, teaching, business and government, as well as to prepare them for graduate school.

To complete the history major successfully, the following course work is required:

- 36 required history credits. History Core Requirements include six (6) additional History credits.
- 12 major elective credits. Within Major Electives, students may select either GEOG/INST3010 OR GEOG 3013; either POLI1005 OR POLI1022; and either ADMG1005 OR SOCL1021. In addition, when selecting Major Electives, 3 credits only should be selected from the list of Religious Studies/Philosophy courses shown below.
- 38 general elective credits
- 34 Core Curriculum credits

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

**Major Electives: 12 credits required (Note options outlined above under credit breakdown)**

Macroeconomics	ADMG1005
Cultural Geography and the Human Mosaic	GEOG3010
Geography and World Affairs	GEOG3013
Introduction to Philosophy	PHIL1021
American Government	POLI1022
World Religions	RELS1003
Women & Religion	RELS2020
Religious Influence on U.S. Development	RELS3037
Varieties of Early Christianity	RELS3040
Race, Class, Gender: An Introduction to Sociology	SOCL1021

**Required Courses: 15 credits-any 2000-3000 level History(HIST) course or any (POLI) course listed below-6 credits must be in U.S. history & 6 credits in non-U.S. history**

2000-3000 Level History(HS) Course	HISTXXXX
2000-3000 Level History(HS) Course	HISTXXXX
2000-3000 Level History(HS) Course	HISTXXXX
2000-3000 Level History(HS) Course	HISTXXXX
2000-3000 Level History(HS) Course	HISTXXXX
History & Politics of Africa	POLI3019
History & Politics of the Middle East	POLI3045

**Required Courses: Select 9 credits (At least one course must be in Western Civilization)**

U.S. History: The Foundation of a Republic (1600-1865)	HIST1010
U.S. History: The Emergence of a Mass Democracy (1865-1945)	HIST1011

Western Civilization I  
Western Civilization II

HIST1013  
HIST1014

**Required History Fundamental Courses: 12 credits**

Any level History Course  
Any level History Course  
Any level History Course

HISTXXXX  
HISTXXXX  
HISTXXXX

**Liberal Studies**

The Liberal Studies program will enable students to explore human existence in light of history, art, language, music, drama, literature, and scientific discovery. Liberal Studies fosters creativity, leadership, intellectual growth and the full development of each student's potential for individual growth through experiences in service, culture, and a wide range of academic disciplines.

To complete the liberal studies major successfully, the following course work is required:

- 21 credits of Humanities
- 15 credits of Social Science credits
- 9 credits of Natural Science courses
- 9 credits of Aesthetics courses
- 9 credits of Administration and Management courses
- 9 credits of Language Component
- 48 CORE Curriculum/General Electives

A minimum of 120 credits are required for degree, the last 30 of which must be earned at La Roche College.

**Administration and Management: 9 credits**

Macroeconomics  
Fundamentals of Management  
Administration & Management Elective

ADMG1005  
ADMG1018  
ADMGXXXX

**Humanities: 21 credits (Select PHIL2026 or 3027)**

Literature Elective  
Ethics  
Philosophy Elective  
World Religions  
Religious Studies Elective  
Speech or Communications Elective  
Speech or Communications Elective

ENGLXXXX  
PHIL2026  
PHILXXXX  
RELS1003  
RELSXXXX  
SPCH or CMETXXXX  
SPCH or CMETXXXX

**Natural Science: 9 credits**

Natural Science, Biology or Chemistry Course  
Natural Science, Biology or Chemistry Course  
Physical Education course

NSCI/BIOL/CHEM  
NSCI/BIOL/CHEM  
PSEDXXXX

**Social Sciences: 15 credits**

History Elective  
Introduction to Psychology  
Psychology Elective  
Race, Class, Gender: An Introduction to Sociology  
Sociology Elective

HISTXXXX  
PSYC1021  
PSYCXXXX  
SOCL1021  
SOCLXXXX

**Performing Arts - Dance Studio**

**La Roche College Dance Department Mission and Vision**

**MISSION STATEMENT**

The mission of the La Roche College Dance Department is to prepare a competent, educated, and mature professional who is viable in the current creative work force. We are committed to nurturing our students through extensive technical training, a deep historical and kinesthetic knowledge of the art form, and an enriched artistic awareness that is developed through performance and practicum.

The La Roche College Dance Department is a ballet-based program offering a Bachelor of Arts Degree in professional performance and pedagogy. The concentration of the dance department is rooted in classical ballet; however the artists are to reach proficiency in multiple genres including: contemporary ballet, modern technique, jazz, Pilate's technique, and dance composition.

**Faculty:**

Maria Caruso

Chair

[Maria.Caruso@laroche.edu](mailto:Maria.Caruso@laroche.edu)

412-536-1212

**VISION**

The La Roche College Dance Department strives to educate and coach our students in a nurturing and compassionate way, developing each of their individual talents through a comprehensive and cohesive academic and creative environment.

**DEPARTMENTAL GOALS**

The La Roche College Dance Department is committed to the development and enhancement of our artist's abilities in an effort to articulate our pristine accelerated programmatic goals on a national level.

- Students study and train primarily with the Director of Dance for the duration of four years while receiving enrichment from company artists and esteemed guests of Bodiography Contemporary Ballet.
- Students are required to reach equal proficiency in both classical ballet technique and contemporary technique upon graduation.
- Students are required to demonstrate their competency and knowledge of all techniques through the production of a student guided senior thesis, which identifies their technical balance while highlighting their individual artistic strengths.

**Dance Requirements: 66 credits**

Performance

Ballet Techniques

Contemporary/Modern

Pointe/Pas de Deux

Variations/Repertoire

PART1000-4000

PART1004-4004

PART1005-4005

PART1009-4009

PART1012-4012

## **Performing Arts Academics - 30 credits**

Introduction to the Human Body: Systems That Move You	BIOL1002
Nutrition	NSCI1010
Kinesiology	NSCI2005
Fundamentals of Music	PART1022
Dance History I	PART2010
Dance History II	PART2015
Dance Pedagogy I	PART3015
Dance Composition	PART3030
Dance Composition II	PART4030
Senior Seminar in Performing Arts/Dance	PART4055

## **Political Science**

### [Political Science Website](#)

A major in Political Science helps to prepare students for careers in politics, government, global service, legal studies, graduate studies, journalism, and diplomacy. To successfully complete the Political Science major, the following coursework is required:

- 9 credits of Political Science Requirements
- 24 credits of Political Science Major Electives:
- 34 credits of CORE Curriculum courses
- 53 credits of General Electives

A minimum of 120 credits is required for degree, the last 30 of which must be taken at La Roche College.

## **Political Science Major - 9 credits required**

American Government	POLI1022
History of Political Thought	POLI3015
Comparative Government	POLI3021

## **Political Science Major Electives -- 24 credits selected from the following two sub-fields.**

### **American Politics (no more than 15 credits from this sub-field)**

Media & Democracy	COMM4009
U.S. History: The Emergence of a Mass Democracy (1865-1945)	HIST1011
History & Culture of the American Indian	HIST3000
History of Black Americans	HIST3038
Constitutional Law	POLI2005
Public Policy	POLI2075
History of European Diplomacy	POLI3002
Modern U.S. Diplomatic History	POLI3023
American Foreign Policy	POLI3033
History of American Political Values, Beliefs & Ideas	POLI3036
The American Presidency	POLI3037
Politics and Society	POLI3039
Multicultural History of the U.S.	SLHS1002
Race & Ethnicity	SOCL1034
Wealth, Power & Prestige	SOCL2038

## **Political Science Major Electives**

### **Comparative Politics (no more than 15 credits from this sub-field)**

Terrorism	CRIM3036
Geography & World Affairs	GEOG3013
Britain and Its Empire	HIST2000
Contemporary Central America	HIST3005
Russia and the Soviet World	HIST3020
History of Modern Germany	HIST3026
History of Modern Europe	HIST3027
East Asian History	HIST3028
Global Politics	POLI2001
Islam in the World	POLI2045
History of European Diplomacy	POLI3002
History & Politics of Africa	POLI3019
Development: Political, Social & Economic Issues	POLI3025
Ethnic Conflict	POLI3040
Terrorism in the Modern Age	POLI3041

History & Politics of the Middle East  
 Development in Southeast Asia  
 Experience of Modern War  
 Social Movements & Resistance  
 History & Politics of Italy  
 Multicultural History of the U.S.  
 Global Social Problems

POLI3045  
 POLI3051  
 POLI3052  
 POLI3082  
 POLI4000C  
 SLHS1002  
 SOCL1023

### Professional Studies

This is a capstone program for adult students who wish to complete their college education. This program is designed to enhance workplace skills such as planning, workflow management, problem solving, listening and communication, labor/management relations and motivation techniques.

This degree completion program is designed for adult and transfer students interested in business and management.

To complete the professional studies major successfully, the following course work is required:

- 45-66 transfer credits
- 18 credits as listed under Applied Professional Studies
- 18 credits as listed under either "Track I" or "Track II"
- 33 credits of CORE Curriculum courses

A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

### Applied Professional Studies: 18 credits

Fundamentals of Management  
 Human Resources Administration  
 Professional Presentations  
 Topics & Issues in Administration & Management  
 Management Of Information Systems

ADMG1018  
 ADMG2025  
 ADMG3024  
 ADMG4040  
 ISTD2021

### Applied Professional Studies: 18 Credits (select one)

Accounting Concepts  
 Accounting I

ACCT1001  
 ACCT2003

### Track I-Human Resources Concentration: 18 Credits

Organizational Behavior  
 Project Management  
 General Elective  
 General Elective  
 Probability and Statistics

ADMG2018  
 ADMG3015  
 GNRLXXXX  
 GNRLXXXX  
 MATH1040

### Track II-Public Relations Concentration: 18 Credits

Writing for Non-Profits  
 General Elective  
 General Elective  
 Advertising and Public Relations  
 Marketing Management  
 Marketing Research

ENGL3042  
 GNRLXXXX  
 GNRLXXXX  
 MRKT2007  
 MRKT2021  
 MRKT3033

### Psychology

[Psychology Department Website](#)

The psychology program integrates an applied emphasis with a foundation grounded in the sciences. The program presents a balanced treatment of the major approaches to contemporary psychology and fosters in the student an appreciation of the problems and promise of the discipline of psychology.

To complete the psychology major successfully, a minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

The following course work is required:

- 32 credits in psychology: 11 required credits and an additional 21 credits completed from courses listed below;
- 37 credits of core requirements;
- 51 credits of general electives selected by the student with the approval of the academic advisor.

#### Critical Skills for Psychology Students

PSYC3070

#### Major Requirements: 9 credits

Introduction to Psychology  
Research Methods in Psychology  
Senior Seminar in Psychology

PSYC1021  
PSYC3011  
PSYC4055

#### Psychology Electives: 21 credits

Health Psychology  
Human Sexuality  
Child Development  
The Exceptional Child  
Psychology & Humor  
Psychology of Spirituality  
Adolescence Psychology  
Educational Psychology  
Applied Learning  
Death & Dying  
Abnormal Psychology  
Industrial and Organizational Psychology  
Theories of Personality  
Social Psychology  
Interpersonal & Group Dynamics  
Tests & Measurements  
Psychology of Adulthood and Aging  
Physiological Psychology  
Counseling Theories & Methods I  
Counseling Theories & Methods II  
Evolutionary Psychology  
Criminal Behavior: Law and Psychology  
Forensic Psychology  
Cognitive Psychology  
Special Topics in Advanced Psychology  
Psychology Internship I  
Psychology Internship II  
Directed Research  
Independent Study

PSYC2015  
PSYC2018  
PSYC2022  
PSYC2033  
PSYC2036  
PSYC2038  
PSYC2040  
PSYC2061  
PSYC2152  
PSYC3020  
PSYC3023  
PSYC3025  
PSYC3028  
PSYC3029  
PSYC3030  
PSYC3031  
PSYC3032  
PSYC3035  
PSYC3040  
PSYC3041  
PSYC3045  
PSYC3063  
PSYC3065  
PSYC3150  
PSYC4050  
PSYC4051  
PSYC4052  
PSYC4056  
PSYC4057

#### Religious Studies

##### [Religious-Studies Department Website](#)

The academic and scientific study of religion has always held a prominent position in institutions of higher learning. The religious studies department at La Roche College continues in this tradition. The major in religious studies is concerned with the academic study of religion in its historical and cultural context. The courses introduce students to the variety of areas of academic pursuit in religious studies, demonstrate the interface of religious studies and theology with the social sciences and enable students to understand, analyze, apply and evaluate theological methodologies and theories as they relate to human experience and existence.

The Religious Studies major is meant to prepare students in the academic study of religion for careers in Pastoral Ministry or social services or for graduate study.

To successfully complete the Religious Studies major, the following coursework is required:

- 30 credits of Religious Studies Major Requirements
- 15 credits of Religious Studies Major Electives
- 34 credits of CORE Curriculum courses
- 41 credits of General Electives

#### Major Requirements: 30 credits - Select either RELS4055 or RELS4056



Ethics	PHIL2026
Old Testament	RELS1001
New Testament	RELS1002
World Religions	RELS1003
Church History	RELS1011
Moral Theology	RELS1015
Sacramental Theology	RELS1016
Christology	RELS2014
The Church: Institution/Community	RELS2034
Senior Seminar	RELS4055
Directed Research in Religious Studies	RELS4056

### **Major Electives: 15 credits**

Christian Ritual & Worship	RELS1012
Survey of Catholic Doctrine	RELS1018
Women & Religion	RELS2020
Mystery of God	RELS2033
Special Topics in Religious Studies	RELS2050
Sociology of Religion	RELS3031
Religious Influence on U.S. Development	RELS3037
Varieties of Early Christianity	RELS3040
Special Topics in Scripture	RELS3045
Religious Studies Internship I	RELS4051
Religious Studies Internship II	RELS4052

### **Sociology**

[Sociology Department Website](#)

Social justice and equality are the key elements to a peaceful and stable society. But our world is often plagued by the persistence of centuries-old problems such as racism, poverty, war, oppression, enslavement, political economic underdevelopment, crime, human exploitation, and environmental degradation. Sociology is a field of study that analyzes these social problems and phenomena, and how they continue to affect groups and societies. It also examines how social issues arise and how they have been addressed. Sociology allows us to discuss realistic solutions to these problems and issues, and why or how these options have failed or succeeded. Through the understanding of the dynamic relationships between social structure and human behavior, scholars of sociology have provided theories and approaches to explain social issues, social change, and social problems.

What can you do with a BA in Sociology? Employers look for people with the skills that an undergraduate education in sociology provides:

- As a broad discipline, sociology cuts across many areas of the social sciences. Thus a degree in sociology prepares students for a wide range of career opportunities in public administration, politics, social and health services, criminal justice, business, education, counseling, social research journalism, public relations, and various other needs, especially those that require analytical skills and working with people from all social backgrounds;
- Knowledge and skills in sociological theories and research methods provide sociology students with the preparation for wide option of post-graduate work. A BA in Sociology is an extremely useful major for the preparation of graduate studies in sociology and other social science disciplines, as well as for law school;
- Globalization has impacted nearly every aspect of people's lives around the world. The growth of both business and non-profit organizations at the national and international levels requires the recruitment of personnel who understand world affairs and appreciate diversity. A BA in sociology that focuses on global affairs would prepare sociology students with the capabilities needed in such organizations.

At La Roche College, a minimum of 120 credits is required for degree, the last 30 of which must be earned at the College. To graduate with a Sociology major, the following course work is required:

- 12 credits of major requirements
- 24 credits of major electives, must include 15 credits at 3000 level. Sociology electives can also be taken in the form of individualized courses for juniors and seniors from the following: SOCL4051 and 4052, Sociology Internship I and II; SOCL4056, Directed Research; and/or SOCL4057, Independent Study.
- MATH1040, Probability and Statistics, is a prerequisite for the SOCL3011 Research Methods course. (3 credits).
- 44 General Elective credits, at least 11 credits of which must be taken outside of sociology.
- 37 College Core Curriculum credits (see <http://www.laroche.edu/academics/core.asp> to find out more).

#### **A. Required Introductory Courses -- Select 6 credits**

Race, Class, Gender: An Introduction to Sociology	SOCL1021
Global Social Problems	SOCL1023
Race & Ethnicity	SOCL1034

#### **B. Required: Core Sociology -- 9 credits**

Foundations of Social Thought	SOCL2040
Research Methods	SOCL3011
Senior Seminar in Sociology	SOCL4055

#### **C. Required Courses: Social Organization -- select 6 credits**

Wealth, Power & Prestige	SOCL2038
Women in American Society	SOCL3026
Family Relations	SOCL3027
Sociology of Religion	SOCL3031
Politics and Society	SOCL3039
Ethnic Conflict	SOCL3040
Education & Society	SOCL3050

#### **D. Required: Global Sociology -- select 6 credits**

Sports & Globalization	SOCL2022
Islam in the World	SOCL2045
Culture & Human Societies	SOCL2070
Social Change & Development	SOCL3025
Cities & Globalization	SOCL3041
Development in Southeast Asia	SOCL3051
Environment & Society	SOCL3081
Social Movements & Resistance	SOCL3082

#### **E. Required: Social Process and Services -- select 6 credits**

Juvenile Delinquency	SOCL2030
Social Gerontology	SOCL2061
Human Services in Modern Society	SOCL2062
Sociology of Work & Occupations	SOCL3008
Death & Dying	SOCL3020
Social Psychology	SOCL3029
Theories of Criminal Deviance	SOCL3030
Victims of Abuse and Neglect	SOCL3037

#### **Ballet Performance Minor**

Minors must be completed within the student's graduation timeline. A minimum GPA of 2.0 must be achieved in the following courses to qualify for the minor.

To complete the Ballet Performance Minor, a total of 29 credits must be completed.

**Required Courses:**

Performance	PART1000-4000
Ballet Techniques	PART1004-4004
Contemporary/Modern	PART1005-4005

**Communication, Media & Technology Minor**[Communication, Media & Technology Department Website](#)

To fulfill the Communication, Media and Technology Minor, 18 credits are required.

Minor must be completed within the student's graduation timeline. Two academic years are estimated for minor completion due to course rotation and prerequisites.

**Required Courses (A):**

Human Communication	CMET1001
Mass Media and Digital Communication	CMET1002
Communication Theory, Research and Criticism	CMET2005
New Media and Digital Communication Theory	CMET3002

**Required Courses (B): must take at least 6 credits of the following**

Communication in Organizations	CMET2001
Communication Between Cultures	CMET2003
Critical Evaluation of Mass Media	CMET3001
Legal Issues of Media and Digital Communication	CMET4001

**English Studies: Professional Writing Minor**[English Department Website.](#)

To complete the English Studies Professional Writing Minor, 15 credits are required.

Minor must be completed within the student's graduation timeline. Two academic years are estimated to complete the minor due to course rotation and prerequisites.

**Required Courses -- choose five courses from the following:**

Business Communications	ENGL2029
Technical Writing	ENGL2030
Creative Writing I	ENGL2040
Special Topics in Composition	ENGL3012
Journalism I	ENGL3031
Journalism II	ENGL3032
Advanced Exposition	ENGL3037
Writing for Non-Profits	ENGL3042
Writing for Advertising and Media	ENGL3043

**French Minor**

Approximately 2 1/2 academic years are estimated for French Minor completion with respect to fall/spring course rotation and prerequisites. Students interested in being tested for certification of oral proficiency should consult with the modern language Department Chair.

**Requirements: 18 credits.****Required Courses:**

Intermediate French I	MLFR2001
Intermediate French II	MLFR2002
Advanced French Language & Culture I	MLFR3001
Advanced French Language & Culture II	MLFR3002
French Civilization and Culture I	MLFR3005
Research in French Studies	MLFR4057

**History Minor**

Three academic years are estimated for history minor completion with respect to Fall/Spring course rotation and prerequisites.

Requirements: 15 credits

**Required Courses: 3 Credits from the following**

U.S. History: The Foundation of a Republic (1600-1865)	HIST1010
U.S. History: The Emergence of a Mass Democracy (1865-1945)	HIST1011
Western Civilization I	HIST1013
Western Civilization II	HIST1014
Multicultural History of the U.S.	SLHS1002

**Required Electives: 12 Credits-Any History (HIST) 2000 or 3000 level course or any of the Political Science (POLI) courses listed below(6 credits must be in U.S. History & 6 credits in non-U.S. History)**

History Elective	HISTXXXX
History Elective	HISTXXXX
History Elective	HISTXXXX
History Elective	HISTXXXX
History & Politics of Africa	POLI3019
History & Politics of the Middle East	POLI3045

**Humanities Minor**

**Requirements: 21 credits**

3 academic years are estimated for humanities minor completion with respect to fall/spring course rotation and prerequisites. The following course work is required:

**Humanities Minor Required Courses: 15 credits-ENGL2021 or 2022 & ENGL2036 or 2039; Select any 2000 or 3000 level ENGL (Literature) and PHIL courses**

World Literature I	ENGL2021
World Literature II	ENGL2022
Issues in American Literature I	ENGL2036
Issues in American Literature II	ENGL2039
Literature Elective	ENGL2XXX
Literature Elective	ENGL3XXX
Introduction to Philosophy	PHIL1021
Philosophy Elective	PHIL2XXX
Philosophy Elective	PHIL3XXX

**Must take at least 3 credits of the following:**

Old Testament	RELS1001
New Testament	RELS1002
World Religions	RELS1003

**Select at least 3 credits of the following:**

Ethics	PHIL2026
Christology	RELS2014
Women & Religion	RELS2020

**International Affairs Minor**

This is an opportunity for students to supplement their career or personal interests and/or to facilitate in-depth study in the field of International Studies. Eighteen credits are required for a minor in International Affairs, with 12 required credits and 6 credits of electives.

Minor must be completed within the student's graduation timeline. It is estimated that two academic years will be needed to complete the required coursework due to course rotation and prerequisites.

**International Affairs Minor Required Courses - 12 credits**

Global Politics	INST2001
International Legal Environment	INST4048

**Select two courses from the following - 6 credits**

Geography Elective	GEOGXXXX
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International Business Management  
Intercultural Communication  
Comparative Government  
Development: Political, Social & Economic Issues

INMT3039  
INST2003  
INST3021  
INST3025

### **Literature Minor**

[English Department Website.](#)

#### **Requirements: 15 credits**

Required coursework is available day and evening. Two academic years are estimated for minor completion because of the course rotation.

In addition to the following required course, students must take four (4) literature electives, at least two of which must be upper division courses.

#### **Literature Minor Requirements: 15 credits (Select ENGL3021 or ENGL3023)**

Shakespeare on Film  
Shakespeare  
Literature Elective  
Literature Elective  
Literature Elective  
Literature Elective

ENGL3021  
ENGL3023  
ENGL3XXX  
ENGL3XXX  
ENGL3XXX  
ENGL3XXX

### **Philosophy Minor**

[Religious-Studies Department Website](#)

Three academic years are estimated for philosophy minor completion with respect to fall/spring course rotation and prerequisites. All coursework must be completed within the student's graduation timeline.

#### **Requirements: 15 credits**

#### **Required Courses:**

Introduction to Philosophy  
Ethics  
Mystery of God  
Moral Theology  
World Views & Identity

PHIL1021  
PHIL2026  
PHIL2033  
RELS1015  
SLRS1002

### **Psychology Minor**

[Psychology Department Website](#)

To complete a minor in psychology, a student must take a minimum of 16 credits. Two academic years are estimated for psychology minor completion with respect to fall/spring course rotation and prerequisites. All coursework must be completed within the student's graduation timeline. NOTE: This minor is not available to students majoring in human service.

In addition to the two required courses shown below, students must select three psychology electives, at least one of which must be upper division (3000 level or above). Successful completion of MATH1040, Probability and Statistics, is a prerequisite for students completing this minor.

Critical Skills for Psychology Students

PSYC3070

#### **Required courses:**

Introduction to Psychology  
Research Methods in Psychology

PSYC1021  
PSYC3011

### **Religious Studies Minor**

[Religious-Studies Department Website](#)

3 academic years are estimated for religious studies minor completion with respect to fall/spring course rotation and prerequisites. 18 credits are required for completion.

**Required Courses: 9 credits**

Old Testament	RELS1001
New Testament	RELS1002
World Religions	RELS1003

**Select 9 credits from the following:**

Ethics	PHIL2026
Church History	RELS1011
Moral Theology	RELS1015
Sacramental Theology	RELS1016
Survey of Catholic Doctrine	RELS1018
Christology	RELS2014
Women & Religion	RELS2020
The Church: Institution/Community	RELS2034
Special Topics in Religious Studies	RELS2050

**Sociology Minor**[Sociology Department Website](#)

Two academic years are estimated for sociology minor completion with respect to fall/spring course rotation and prerequisites. This minor is not available to students majoring in human services.

Fifteen (15) credits are required. In addition to the required courses shown below, students must select three sociology electives, at least one of which must be upper division (3000 level or higher).

**Required courses:**

Race, Class, Gender: An Introduction to Sociology	SOCL1021
Research Methods	SOCL3011

**Spanish Minor**

[Modern Languages Department Website](#) Students may choose a topic related to their major and Spanish culture issues relating to topic. 2-2 1/2 academic years are estimated for Spanish minor completion with respect to fall/spring course rotation and prerequisites. Students interested in being tested for certification of oral proficiency should consult with the Modern Language Department Chair.

**Requirements: 18 credits**

Intermediate Spanish I	MLSP2001
Intermediate Spanish II	MLSP2002
Advanced Spanish Language & Culture I	MLSP3001
Advanced Spanish Language & Culture II	MLSP3002
Research in Spanish Studies	MLSP4057

**Select one of the following courses in history:**

History of Latin America	HIST2035
Contemporary Central America	HIST3005
History of Political Thought	HIST3015

**Women's / Gender Studies Minor**[Religious-Studies Department Website](#)

Women are the majority sex in the nation and comprise the majority of all students in higher education. The number of women in the paid work force exceeds that of men. As more women work, business and corporations find the need for more sensitivity to issues such as health care, sexual harassment, parental leave, pay equity and equal employment. There is a growing demand in the professions of law, medicine, social work, teaching, counseling, government services and international affairs for expertise in gender issues. Women are recognized and courted as powerful consumers. Women are an influential force in American society as they continue to question and restructure traditional norms, sex roles and cultural expectations.

The minor in Women's / Gender Studies is designed to examine gender from a multidisciplinary perspective and prepare students for the challenges of our gendered world. Students will explore women's roles and experiences in social, political and economic life; women's history; women's spirituality; feminist theory; women's literature; women and the arts; the intersection of gender with other categories of difference such as race, ethnicity, class, sexuality, religion, physical and developmental ability, and age; the impact of globalization on women's lives; and the ways in which gender stereotypes influence women's and men's ideas of themselves and each other.

Course work will provide key conceptual tools that women and men can use in educating themselves and others while in college and can later employ in achieving a personally and professionally successful life. Students will learn to recognize and challenge gender inequity and other types of oppression and will broaden their awareness of current societal expectations for both women and men, thereby increasing their effectiveness and sensitivity in a variety of interpersonal and professional settings. In almost any career a woman or man chooses, s/he will encounter multiple challenges that reflect our gendered world. The Minor would be appropriate and of significant future benefit to students pursuing majors in Management, Marketing, Literary Studies, Criminal Justice, Sociology, History, Psychology, Communications, International Studies, Education, Health Care and students interested in careers promoting peace and social justice. Students would be better prepared to work with advocacy groups, human rights organizations, environmental and consumer groups, health care, youth, elderly and social services, policy and lobbying organizations, trade and international associations and labor.

The Minor in Women's / Gender Studies requires 15 credits. Students select four courses (12 credits) from the following and complete the capstone seminar, Special Topics in Feminist Theory, for an additional three credits

Minor must be completed within the student's graduation timeline. Three academic years are estimated for completion due to course rotation and prerequisites.

**Select four courses (12 credits) from the following:**

Women in Literature	ENGL3015E
Women Across Cultures	GLBL4025
Women in U.S. History	HIST3030
Women & Religion	RELS2020
Women in American Society	SOCL3026

**Modern Language Certificate Program**

Modern Languages Department Website La Roche College offers a modern language certificate program in French and Spanish. It is designed to develop a working-level speaking ability in a foreign language as well as competency in the other language skills.

The program also provides intensive learning experiences in foreign cultures and customs. Through state-of-the-art methodologies, including computer assisted instruction, various technological aides and other support programs, students are provided with opportunities for individual pacing and reinforcement of language skills.

The department encourages interested students to participate in immersion programs, i.e. language programs in native speaking environments, in order to experience a full exposure to the target language and culture.

The program consists of a sequence of six courses aimed at developing the oral proficiency skills of the student as measured on the ACTFL/ETS national scale. Final testing to qualify for the certificate will take place after a student has completed the Language and Culture II course of the language cycle. Only an "Intermediate-Mid" or above level as measured on the ACTFL/ETS scale will appear on the student's transcript.

**Requirements:**

Completion of one of the following language cycles with a grade point of "B" or higher:

- French cycle:  
MLFR 1001, 1002, 2001, 2002, 3001, 3002
- Spanish cycle:  
MLSP1001, 1002, 2001, 2002, 3001, 3002
- Demonstration of oral proficiency at an intermediate or advanced level
- Successful completion of written examination following the fulfillment of the language cycle requirement

NOTE: The Modern Language Certificate Program is not a major. Students may elect to earn a certificate in addition to their major, core, and elective requirements.

**French Cycle:**

Elementary French I	MLFR1001
Elementary French II	MLFR1002
Intermediate French I	MLFR2001
Intermediate French II	MLFR2002
Advanced French Language & Culture I	MLFR3001

**Spanish Cycle:**

Elementary Spanish I	MLSP1001
Elementary Spanish II	MLSP1002
Intermediate Spanish I	MLSP2001
Intermediate Spanish II	MLSP2002
Advanced Spanish Language & Culture I	MLSP3001
Advanced Spanish Language & Culture II	MLSP3002

**Parish Program Manager Certificate**[Religious-Studies Department Website](#)

This Certificate Program is designed to provide Parish Program Managers with basic courses in religious studies. As a Catholic college, La Roche College believes that all parish personnel committed to ministry should be prepared to engage the teachings of Christ and the tradition of the Church.

30 credits are required for completion of this certificate program.

**Required Courses: 30 credits**

Ethics	PHIL2026
Old Testament	RELS1001
New Testament	RELS1002
World Religions	RELS1003
Church History	RELS1011
Sacramental Theology	RELS1016
Christology	RELS2014
Women & Religion	RELS2020
The Church: Institution/Community	RELS2034
Religious Studies Internship I	RELS4051

**Professional Writing Certificate Program**[English Department Website](#)**Requirements: 24 credits**

Students who wish to obtain the Certificate in Professional Writing must complete the equivalent of EN 111 and EN 112 as prerequisites to acceptance into the program. Twenty-four (24) credits will be required for the Certificate. No more than 9 credits may be transferred from another institution.

**Choose 15 credits from the following:**

Business Communications	ENGL2029
Creative Writing I	ENGL2040
Special Topics in Composition	ENGL3012
Journalism I	ENGL3031
Journalism II	ENGL3032
Advanced Exposition	ENGL3037
Writing for Non-Profits	ENGL3042
Writing for Advertising and Media	ENGL3043

**Required Courses: 9 credits (Select GCDN1025 or ENGL3051)**

Technical Writing	ENGL2030
Publication Design	ENGL3051
Fundamentals of Electronic Publishing	GCDN1025
Introduction to Cyberspace	ISTC2008



**Natural & Behavioral Sciences Division****Programs of Study****Majors**

Biochemistry	BS
Biology (B.A.)	BA
Biology (B.S.)	BS
Biology with Forensics	BS
Chemistry	BS
Chemistry - Comprehensive	BS
Chemistry - Forensic Science	BS
Child and Family Studies	BA
Computer Science	BS
Criminal Justice	BA
Criminal Justice - Accelerated Program for Criminal Justice Professionals (APCJP)	BA
Health Science	BA
Health Science - Degree Completion	BA
Mathematics - BA	BA
Mathematics - BS	BS
National Security Studies	BS
Radiologic Technology	Associate

**Minors**

Applied Physics Minor	Other
Biology Minor	Other
Chemistry Minor	Other
Computer Science Minor	Other
Computer Security & Forensics Minor	Other
Criminal Justice Minor	Other
Mathematics Minor	Other
Medical Technology Minor	Other
Molecular Biology Minor	Other
Political Science Minor	Other
Pre-law Minor	Other

**Certificate Programs**

Criminalistics Certificate	Certificate
Forensic Psychology	Certificate

**Special Programs**

Athletic Training	Other
Bioengineering	BA/BS
Chemical Engineering	BA/BS
Computer Engineering	BA/BS
Electrical Engineering	BA/BS
Engineering Science	BA/BS
Industrial Engineering	BA/BS
Occupational Therapy	Other
Physical Therapy	BS
Physician Assistant Studies	Other
Speech-Language Pathology	Other

**Graduate Programs**

Master of Science in Health Science (Nurse Anesthesia)	MS
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**Detail - Natural & Behavioral Sciences Division****Biochemistry**

A major in Biochemistry is meant to prepare students for graduate studies in Chemistry or Biochemistry, for admission to a professional school such as medical school or pharmacy school, or employment in the biotechnology sector.

To successfully complete the Biochemistry major, the following coursework is required:

- 79 credits of Major Requirements (60 Chemistry/Biology credits; 2 seminar credits; and 19 Science credits)
- 34 Core credits
- 7 General electives credits
- A minimum of C grade in science courses, GPA minimum of 2.5
- A minimum of 120 credits are required for degree, the last 30 of which must be earned at La Roche College.

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
Cell Biology	BIOL3026
Molecular Biology	BIOL4030
Molecular Biology-Lab	BIOL4031
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Analytical Chemistry I	CHEM3011
Analytical Chemistry I-Lab	CHEM3011L
Analytical Chemistry II	CHEM3012
Analytical Chemistry II-Lab	CHEM3012L
Biochemistry I	CHEM3036
Biochemistry I-Lab	CHEM3037
Biochemistry II	CHEM3038
Physical Chemistry I	CHEM4032
Physical Chemistry I-Lab	CHEM4032L
Seminar in Chemistry I	CHEM4055
Seminar in Chemistry II	CHEM4059
Chemistry Elective	CHEMXXXX
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

### **Biology (B.A.)**

The bachelor of arts program in biology is designed to be merged with studies in a non-science area. The resulting program will retain the elements of biology necessary for the successful application of this science in another discipline. Students will be advised to choose a minor; some possibilities include management, pre-law, professional writing and computer information systems. Other combinations may be arranged to fit the needs of students.

To complete the biology (B.A.) major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College.

The following course work is required for completion of degree:

- 33 credits in Major Requirements
- 22 credits in biology electives level 2000 or above

- 34 credits to satisfy remaining Core Curriculum requirements not covered above.
- 31 credits of general electives selected with the approval of the academic advisor

### **Major Requirements Requirements: 33 credits (includes 22 credits of biology electives)**

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
College Algebra	MATH1010
Trigonometry	MATH1023
Probability and Statistics	MATH1040
Physics for Health Sciences	PHYS1010
Physics for Health Science-Lab	PHYS1010L

### **Biology (B.S.)**

The bachelor of science program in biology is planned to provide scientific training as part of a liberal education and to give the student a basic comprehension of the main areas of biology. The program is designed to prepare the student for graduate work, for admission to medical/dental/veterinary school, for a biologically oriented career, or for research in the biological sciences.

To complete the biology (B.S.) major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of:

- 36 credits in biology (includes 8 credits of biology electives 200 level or above)
- 35 credits in other science and mathematics courses
- 34 credits to satisfy remaining Core Curriculum requirements not satisfied above.
- 15 credits of general electives selected with the approval of the academic advisor.

Note: Those students choosing this major as preparation for medical, dental or veterinary school are advised to take the courses listed below under that category as either biology or general electives.

### **Biology Requirements: 36 credits (includes 8 credits of Biology electives)**

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
Microbiology	BIOL2025
Microbiology-Lab	BIOL2025L
Genetics	BIOL3013
Genetics-Lab	BIOL3014
Cell Biology	BIOL3026
Biochemistry I	BIOL3036
Biochemistry-Lab	BIOL3037
Biochemistry II	BIOL3038
Seminar in Biology	BIOL4059

### **Medical/Dental/Veterinary School Preparation Courses:**

Comparative Vertebrate Anatomy & Physiology I	BIOL2021
Comparative Vertebrate Anatomy & Physiology II	BIOL2022
Immunology	BIOL4019
Immunology-Lab	BIOL4020

### **Other Science & Mathematics Courses: 35 credits**

General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L

Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

### **Biology with Forensics**

This major prepares students for employment or graduate studies in biological sciences with forensic applications, including such professions as a crime lab scientist or a member of a criminal investigations team.

To successfully complete the biology major, the following course work is required:

- 36 credits in biology (2 of which must be in seminar)
- 43 credits in chemistry, mathematics and physics
- 13 credits in criminal justice
- 31 CORE curriculum credits.

A minimum of 123 credits is required for graduation, the last 30 of which must be completed at La Roche College.

Inorganic Chemistry	CHEM3026
<b>Biology Component: 36 credits</b>	

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
Microbiology	BIOL2025
Microbiology-Lab	BIOL2025L
Genetics	BIOL3013
Genetics-Lab	BIOL3014
Cell Biology	BIOL3026
Special Topics in Biology	BIOL3028
Biochemistry I	BIOL3036
Biochemistry-Lab	BIOL3037
Biochemistry II	BIOL3038
Molecular Biology	BIOL4030
Molecular Biology-Lab	BIOL4031
Seminar in Biology	BIOL4059

### **Chemistry, Mathematics and Physics: 43 credits**

General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Analytical Chemistry I	CHEM3011
Analytical Chemistry I-Lab	CHEM3011L
Analytical Chemistry II	CHEM3012
Analytical Chemistry II-Lab	CHEM3012L
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

### **Criminal Justice: 13 credits**

Introduction to the Criminal Justice System	CRIM1001
Criminal Law	CRIM3010
Criminalistics	CRIM3041

**Chemistry**[Chemistry Department Website](#)

This program is designed to provide the student with a strong foundation in chemistry, including a solid theoretical background as well as broad exposure to experimental techniques and current instrumentation. Upon successful completion of this program, a student will be prepared for entry level positions in chemistry-related industries and to pursue advanced degrees in a variety of scientific areas, such as medical/dental/veterinary school.

To complete the chemistry major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of:

- 46 chemistry component credits(2 of which must be in seminar)
- 19 science component credits
- 34 CORE credits
- 21 general elective credits

NOTE: students choosing this major as preparation for medical/dental/veterinary school are advised to take the courses shown under that category below as chemistry or general electives.

Inorganic Chemistry	CHEM3026
<b>Chemistry Core: 37 credits</b>	
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Analytical Chemistry I	CHEM3011
Analytical Chemistry I-Lab	CHEM3011L
Analytical Chemistry II	CHEM3012
Analytical Chemistry II-Lab	CHEM3012L
Physical Chemistry I	CHEM4032
Physical Chemistry I-Lab	CHEM4032L
Physical Chemistry II	CHEM4033
Physical Chemistry II-Lab	CHEM4033L
Seminar in Chemistry I	CHEM4055
Seminar in Chemistry II	CHEM4059
Chemistry Elective	CHEMXXXX
<b>Science Component: 27 credits</b>	
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

**Suggested Medical/Dental/Veterinary School Preparation Courses:**

Comparative Vertebrate Anatomy & Physiology I	BIOL2021
Comparative Vertebrate Anatomy & Physiology II	BIOL2022
Microbiology	BIOL2025
Genetics	BIOL3013
Genetics-Lab	BIOL3014
Immunology	BIOL4019
Immunology-Lab	BIOL4020
Biochemistry I	CHEM3036
Biochemistry I-Lab	CHEM3037

### Chemistry - Comprehensive

#### [Chemistry Department Website](#)

This major is designed for the student who wishes to study chemistry in more depth. It is particularly appropriate for students who wish to pursue a graduate degree in chemistry. Students preparing for careers in academic or industrial laboratories will also benefit from this major. This program is constructed using the guidelines prepared by the Committee on Professional Training of the American Chemical Society. This group of courses provides the 500 hours of laboratory instruction recommended by the A.C.S.

To complete the Comprehensive Chemistry major, a minimum of 120 credits is required, the last 30 of which must be completed at La Roche College. The required course work consists of:

- 50 credits Chemistry Required courses, which include a Chemistry elective at the 3000- or 4000-level
- 33 credits of other Science and Mathematics
- 34 credits of CORE Curriculum courses
- 3 credits of general electives selected with the approval of the academic advisor.

### Chemistry Required Courses: 50 credits

General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Analytical Chemistry I	CHEM3011
Analytical Chemistry I-Lab	CHEM3011L
Analytical Chemistry II	CHEM3012
Analytical Chemistry II-Lab	CHEM3012L
Inorganic Chemistry	CHEM3026
Biochemistry I	CHEM3036
Biochemistry I-Lab	CHEM3037
Physical Chemistry I	CHEM4032
Physical Chemistry I-Lab	CHEM4032L
Physical Chemistry II	CHEM4033
Physical Chemistry II-Lab	CHEM4033L
Seminar in Chemistry I	CHEM4055
Research in Chemistry	CHEM4056
Seminar in Chemistry II	CHEM4059
Chemistry Elective	CHEMXXXX
Chemistry Elective	CHEMXXXX

### Other Science & Mathematics Courses: 33 credits

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
Computer Science Elective	CSCIXXXX
Computer Science Elective	CSCIXXXX
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

### Chemistry - Forensic Science

## [Chemistry Department Website](#)

This major will prepare students to work in a forensic chemistry laboratory, or for graduate study in chemistry. To successfully complete the chemistry major, the following course work must be completed:

- 42 chemistry component credits (2 of which must be in seminar)
- 31 natural science component credits
- 13 Criminal Justice credits
- 34 CORE/General Elective credits.
- A minimum of 120 credits is required for graduation, the last 30 of which must be earned at La Roche College.

### **Chemistry Component: 42 credits**

General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Analytical Chemistry I	CHEM3011
Analytical Chemistry I-Lab	CHEM3011L
Analytical Chemistry II	CHEM3012
Analytical Chemistry II-Lab	CHEM3012L
Biochemistry I	CHEM3036
Biochemistry I-Lab	CHEM3037
Physical Chemistry I	CHEM4032
Physical Chemistry I-Lab	CHEM4032L
Physical Chemistry II	CHEM4033
Physical Chemistry II-Lab	CHEM4033L
Seminar in Chemistry I	CHEM4055
Seminar in Chemistry II	CHEM4059
Forensic Chemistry	CHEM4060
Forensic Chemistry-Lab	CHEM4060L

### **Criminal Justice component: 13 credits**

Introduction to the Criminal Justice System	CRIM1001
Criminal Law	CRIM3010
Criminalistics	CRIM3041
Criminal Investigations	CRIM3045

### **Science and Mathematics Component: 31 credits**

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
Molecular Biology	BIOL4030
Molecular Biology-Lab	BIOL4031
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

### **Child and Family Studies**

#### **Bachelor of Arts**

The Child and Family Studies major focuses on human development within the context of families, communities, and the wider society, and an understanding of challenges and treatment options for families in distress. The major is interdisciplinary in nature, with a core foundation in psychology as well as perspectives from education and the social sciences. To successfully complete the Child and Family Studies major, the following coursework is required:

- 43 credits of Major Requirements
- 37 credits of Core Requirements
- 40 credits of General Electives

This major cannot be doubled with a major or minor in Psychology.

#### Critical Skills for Psychology Students

PSYC3070

#### **Major Requirements: 42 Credits**

Survey of the Helping Professions and Family Policy	CFST2010
Couple Relationships: An Exploration of Diversity	CFST3013
Senior Seminar	CFST4055
Introduction to High Incidence Disabilities	EDSP2010
Introduction to Psychology	PSYC1021
Child Development	PSYC2022
Adolescence Psychology	PSYC2040
Research Methods in Psychology	PSYC3011
Abnormal Psychology	PSYC3023
Psychology of Adulthood and Aging	PSYC3032
Counseling Theories & Methods I	PSYC3040
Counseling Theories & Methods II	PSYC3041
Psychology Internship I	PSYC4051
Psychology Internship II	PSYC4052

#### **Computer Science**

[Computer Science Department Website](#)

A major in Computer Science is meant to prepare students for jobs and careers in the computer industry or for further study at the graduate level in computer science, telecommunications, or related fields, or to provide students with a background in a fundamental science.

To complete the computer science degree major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of:

- 34 credits in computer science core-components
- 9 credits in computer science electives
- 14 credits in mathematics
- 8 credits in physics
- 34 credits in core curriculum
- 21 credits in general electives

Computer Organization and Design Lab

CSCI2035L

#### **Computer Science Core: 33 credits**

Introduction to Computer Science

CSCI1002



Programming I	CSCI1010
Programming I Lab	CSCI1010L
Programming II	CSCI2010
Programming II Lab	CSCI2010L
Algorithm Analysis	CSCI2020
Systems Programming	CSCI2025
Systems Programming Lab	CSCI2025L
Computer Organization & Design	CSCI2035
Database Systems Theory	CSCI2055
Operating Systems	CSCI3040
CS Senior Capstone Experience I	CSCI4098
CS Senior Capstone Experience II	CSCI4099

#### **Computer Science Electives: Select 9 credits**

Computer Crime	CRIM3043
Computer Security	CSCI3042
Computer Science-4000 level	CSCI4XXX
Internship	INTR4051
Legal Issues and Info Tech	ISTC3005
Web Page Usability & Programming	ISTC3008
Human Computer Interaction	ISTC3015

#### **Mathematics Components: 14 credits**

Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Discrete Mathematics I	MATH2050

#### **Physics Components: 8 credits**

Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

#### **Criminal Justice**

##### [Justice, Law & Security Website](#)

The major is designed to prepare students for career opportunities in the criminal justice field, to include law enforcement, courts and corrections, and private security, or for further study at the graduate level in criminal justice, criminology or law. To successfully complete the criminal justice major, the following coursework is required:

- 27 Criminal Justice core component credits
- 12 Criminal Justice elective credits
- 15 skills components credits
- 40 academic core credits
- 15 general elective credits: May be fulfilled through a second major, minor or certificate program. Recommended programs are: Criminalistics, Accounting, Computer Forensics and Security, Forensic Psychology, Pre-Law, Sociology, Modern Languages (Spanish or Arabic)
- 11 credits of a foreign language [Spanish or Arabic recommended].

A minimum of 120 credits is required for degree, the last 30 of which must be taken at La Roche College.

#### **Criminal Justice Required Courses: 27 credits (Select CRIM3030 or CRIM3042; CRIM2016 is crosslisted with SOCL2016; CRIM3030 is crosslisted with SOCL3030)**

Introduction to the Criminal Justice System	CRIM1001
Constitutional Law	CRIM2005
Intelligence Analysis and Presentation Techniques	CRIM2011
Police and Society	CRIM2016
Criminal Law	CRIM3010
Theories of Criminal Deviance	CRIM3030
Applied Criminology	CRIM3042
Criminal Investigations	CRIM3045
Senior Criminal Justice Capstone	CRIM4055
Research Methods in Psychology	PSYC3011
Police & Society	SOCL2016

**Elective Courses: select any 4 courses -12 credits (CRIM3063 is crosslisted with PSYC3063)**

CSI: La Roche	CRIM1000
Introduction to Corrections	CRIM2010
Juvenile Delinquency	CRIM2030
Correctional Counseling	CRIM3000
Special Topics in Criminal Justice	CRIM3020
Enterprise & Transnational Crime	CRIM3034
Terrorism	CRIM3036
Crime Scene & Forensics Laboratory	CRIM3040
Criminalistics	CRIM3041
Computer Crime	CRIM3043
Security Management & Loss Prevention	CRIM3046
Administration of Criminal Justice Organizations	CRIM3052
Law Enforcement Communications: Interviewing, Note Taking and Report Writing	CRIM3054
Criminal Behavior: Law & Psychology	CRIM3063
Emergency Preparedness and Crisis Management	CRIM4012
Internship in Criminal Justice	CRIM4051
Independent Study	CRIM4057

**Skills Component: 15 credits (students may select CRIM2012, Analysis of Criminal Justice Data OR MATH1040, Probability & Statistics; students may select CRIM2018, Professional Responsibility OR PHIL2026 Ethics)**

Analysis of Criminal Justice Data	CRIM2012
Professional Responsibility: Legal & Ethical Concepts	CRIM2018
Technical Writing	ENGL2030
Introduction to Cyberspace	ISTC2008
Probability and Statistics	MATH1040
Logic	PHIL1020
Ethics	PHIL2026

**Criminal Justice - Accelerated Program for Criminal Justice Professionals (APCJP)**

[Justice, Law & Security Website](#)

Current or prior law enforcement officers with five years of experience in the criminal justice field will receive 48 advanced standing credits (15 based upon Act 120 Certification and 33 credits for work experience.) Most courses are offered in an 8-week accelerated format that is cohort based. Students may select from both on-line, classroom and blended courses. It is possible to graduate from the Accelerated Program with a BA in Criminal Justice and a minor in another academic field within four semesters and one summer session. The APCJP student will complete 72 academic credits at La Roche College. APCJP students with an associate degree and/or academic credit from other institutions will be evaluated on an individual basis. A student's last thirty credits must be earned at La Roche College.

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The following coursework is required for degree:

- 15 Credits of Criminal Justice Major Requirements
- 6 Credits of Criminal Justice Major Electives
- 12 Credits of Skills Components
- 36 Credits of CORE Curriculum courses
- 30 Credits of General Electives

**Academic Core Courses -- 24 Credits Required:**

APCJP students have been granted 16 credits for La Roche Experience (4) (W); Select Aesthetics (3) (W); Select Religion/Philosophy (3) (W); Select Literature (3) (W); and Select History (3) (W). The following core courses are required:

- ENGL1011 College Writing I
- ENGL1012 College Writing II
- MATH1010 College Algebra
- ISTC1005 Practical Computer Applications
- Select Science
- Select Social/Cultural Systems
- Community Integrative
- Global Integrative

**Language Requirement – No Credits Required.**

APCRP students do not have a modern language requirement but can take language courses as alternatives and may minor in Spanish.

### General Electives - 15 Credits

APCJP students have been granted 11 credits (W) from the elective component based upon work experience and prior academic/training courses.

The elective requirement may be fulfilled through a minor or certificate program. Recommended programs are: Criminalistics, Modern Languages, Computer Science, Psychology, Sociology, Accounting, Pre Law, and Management.

Criminal Justice elective courses in excess of the required credit (6) may be taken and applied to the general elective component.

### Criminal Justice Required Courses: 12 credits are granted for

- CRIM1001 Introduction to the Criminal Justice System (A)
- CRIM2016 Police and Society (W)
- CRIM3045 Criminal Investigations (A)
- CRIM2011 Intelligence Analysis and Presentation (A)

### Criminal Justice Electives: 6 credits are granted for

- CRIM3045 Law Enforcement Communications (A)
- CRIM4051 Internship (W)

### Criminal Justice Skills Component: 3 credits are granted for

- CRIM2018 Professional Responsibility or
- PHIL3026 Ethics

### Criminal Justice Major Electives : Select 6 credits

Introduction to Corrections	CRIM2010
Correctional Counseling	CRIM3000
Enterprise & Transnational Crime	CRIM3034
Terrorism	CRIM3036
Crime Scene & Forensics Laboratory	CRIM3040
Criminalistics	CRIM3041
Computer Crime	CRIM3043
Security Management & Loss Prevention	CRIM3046
Administration of Criminal Justice Organizations	CRIM3052
Independent Study	CRIM4057

### Criminal Justice Major Requirements: 15 credits (select CRIM3030 or CRIM3042)

Constitutional Law	CRIM2005
Criminal Law	CRIM3010
Theories of Criminal Deviance	CRIM3030
Applied Criminology	CRIM3042
Senior Criminal Justice Capstone	CRIM4055
Research Methods in Psychology	PSYC3011

### Criminal Justice Skills: 12 credits (Select CRIM2012 or MATH1040)

Analysis of Criminal Justice Data	CRIM2012
Technical Writing	ENGL2030
Introduction to Cyberspace	ISTC2008
Probability and Statistics	MATH1040
Logic	PHIL1020

### Health Science

A major in Health Science is meant to provide a bridge between study in the natural sciences and the application of science principles to diverse health-related professions.

The B.A. in Health Science is designed to meet the needs of two groups of students: 1) undergraduates preparing for post-baccalaureate study in a health profession; and 2) those already credentialed health professionals who are seeking to complete a Bachelor's degree. For both categories of students, the major in health science combines study in the natural sciences with liberal arts study through the Core Curriculum. The health science major also offers substantial general elective credits, which a student can use to add a second major or a minor, or to further one's background in the sciences or liberal arts.

**Health Science Option 1 Major** is meant to prepare students for health profession study in graduate school. For example, this option is suitable for undergraduates preparing to attend graduate programs in Occupational Therapy, Physical Therapy, Speech-Language Pathology,

Clinical-Nutrition Dietetics, Health Information Management, and Physician Assistant at another institution.

To successfully complete the Health Science (Option 1) major the following coursework is required:

- 40 credits of Science and Mathematics Component
- 18 credits of Health Science Component
- 34 credits of CORE Curriculum courses
- 28 credits of General Electives

A minimum of 120 credits are required for degree, the last 30 of which must be earned at La Roche College.

Pharmacology for Health Science	HSCU3045
Health Assessment in Health Science	HSCU3050
<b>Health Science Component: 19 credits</b>	

Introduction to Health Professions	HSCU1005
Biology of Aging	HSCU3015
Human Pathophysiology I	HSCU3021
Exercise Physiology & Sports Nutrition	HSCU3025
Human Pathophysiology II	HSCU3041
Biomedical Ethics	PHIL3027
Health Psychology	PSYC2015
Physiological Psychology	PSYC3035

**Science and Mathematics Component: 40 credits**

Life Science-Lab	BIOL1000
Life Science	BIOL1001
Microbiology for Health Sciences	BIOL1015
Microbiology for Health Sciences-Lab	BIOL1015L
Medical Terminology	BIOL1020
Human Anatomy & Physiology I	BIOL1023
Human Anatomy & Physiology I-Lab	BIOL1023L
Human Anatomy & Physiology II	BIOL1024
Human Anatomy & Physiology II-Lab	BIOL1024L
Principles of Chemistry I	CHEM1007
Principles of Chemistry I-Lab	CHEM1008
Principles of Chemistry II	CHEM1017
Principles of Chemistry II-Lab	CHEM1018
College Algebra	MATH1010
Probability and Statistics	MATH1040
Normal and Clinical Nutrition	NSCI1025
Physics for Health Sciences	PHYS1010
Physics for Health Science-Lab	PHYS1010L

**Health Science - Degree Completion**

A major in Health Science is meant to provide a bridge between study in the natural sciences and the application of science principles to diverse health-related professions. Full-time faculty members in the Department of Health Science are also professors in the Departments of Biology, Chemistry and Physics.

As part of its continuing growth in Health Science education, La Roche College has established the BA in Health Science, beginning in the fall semester of 2008. The BA in Health Science is designed to meet the needs of those students already credentialed health professionals who are seeking to complete at Bachelor's degree. The major in Health Science combines study in natural and health sciences with liberal arts study through the Core Curriculum. The Health Science major also offers general elective credits, which a student can use to add a second major, or a minor, to further one's background in the sciences or liberal arts.

This program is for individuals who maintain active certification in one of the following health professions:

- Radiography[R.T.(R)from the American Registry of Radiologic Technologists]
- Nuclear Medicine Technology [R.T.(N) from the A.R.R.T.]
- Radiation Therapy[R.T.(T) from the A.R.R.T.]
- Sonography {R.D.M.S. from the American Registry in Diagnostic Medical Sonography}
- Respiratory Therapy [C.R.T. from the National Board for Respiratory Care]
- Medical Laboratory Technician [M.L.T. from the American Society for Clinical Pathology]

To successfully complete the Health Science Degree Completion major, the following coursework is required:

- 18 credits of Health Science Requirements
- 30 credits of CORE Curriculum courses
- 15 credits for active Certification in one of the Health Science Areas
- 45 credits for science courses leading to certification- Associates Degree or Hospital Program
- General Elective credits are dependent on transfer credits

A minimum of 120 credits are required for degree, the last 30 of which must be earned at La Roche College.

Biology of Aging	HSCU3015
Human Pathophysiology I	HSCU3021
Exercise Physiology & Sports Nutrition	HSCU3025
Human Pathophysiology II	HSCU3041
Pharmacology for Health Science	HSCU3045
Health Assessment in Health Science	HSCU3050
Biomedical Ethics	PHIL3027
Health Psychology	PSYC2015
Physiological Psychology	PSYC3035

#### **Mathematics - BA**

##### [Math-Physics Department Website](#)

The major in Mathematics introduces students to a field whose origins date from the dawn of history and whose ever-increasing pervasiveness and importance in science, engineering, business and finance renders it a veritable master-key to our understanding of the world about us. The degree in mathematics opens many doors to students upon graduation, to a job in business, industry or government, to certification as a teacher, to graduate study in mathematics, statistics and computer science, among many other fields, or to a professional school such as in business or law. Moreover, the major in mathematics serves as a gateway not only to a job and career, but also to a world where logic and imagination combine to create timeless beauty and truth.

To complete the mathematics major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required

course work consists of:

- 46 credits of Mathematics courses
- 8 credits of Physics courses
- 34 credits CORE Curriculum courses
- 32 credits of General Electives

### **Mathematics Core: 46 credits**

Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Analytic Geometry & Calculus III	MATH2030
Ordinary Differential Equations	MATH2031
Discrete Mathematics I	MATH2050
Discrete Mathematics II	MATH2051
Linear Algebra	MATH3015
Complex Analysis	MATH3035
Probability and Statistics I	MATH3040
Probability and Statistics II	MATH3045
History of Mathematics	MATH4003
Modern Abstract Algebra	MATH4015
Geometry	MATH4020
Real Analysis	MATH4035
Junior-Senior Seminar in Mathematics	MATH4090

### **Physics Component: 8 credits**

Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

### **Mathematics - BS**

#### [Math-Physics Department Website](#)

The major in Mathematics introduces students to a field whose origins date from the dawn of history and whose ever-increasing pervasiveness and importance in science, engineering, business and finance renders it a veritable master-key to our understanding of the world about us. The degree in mathematics opens many doors to students upon graduation to a job in business, industry or government, to certification as a teacher, to graduate study in mathematics, statistics and computer science, among many other fields to a professional school in business or law. Moreover, the major in mathematics serves as a gateway not only to a job or career, but also to a world where logic and imagination combine to create timeless beauty and truth.

What distinguishes the BS from the BA in Mathematics is the requirement of 7 credits in Computer Science and that of 4 additional credits in Physics. Although the number of general-elective credits is thereby reduced by 11, the remaining 21 credits could still allow for a minor in many fields.

To complete the mathematics major, a minimum of 120 credits is required, the last 30 of which must be earned at La Roche College. The required course work consists of the following:

- 46 credits in the mathematics core
- 7 credits in Computer Science
- 12 credits in Physics
- 34 credits in CORE Curriculum courses
- 21 credits of General Electives

### **Computer Science: 7 credits**

Introduction to Computer Science	CSCI1002
Programming I	CSCI1010
Programming I Lab	CSCI1010L

### **Mathematics Core: 46 credits**

Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Analytic Geometry & Calculus III	MATH2030
Ordinary Differential Equations	MATH2031
Discrete Mathematics I	MATH2050
Discrete Mathematics II	MATH2051
Linear Algebra	MATH3015
Complex Analysis	MATH3035
Probability and Statistics I	MATH3040

Probability and Statistics II  
History of Mathematics  
Modern Abstract Algebra  
Geometry  
Real Analysis  
Junior-Senior Seminar in Mathematics

MATH3045  
MATH4003  
MATH4015  
MATH4020  
MATH4035  
MATH4090

**Physics: 12 credits**

Physics I  
Physics I-Lab  
Physics II  
Physics II-Lab  
Physics III  
Physics III-Lab

PHYS1032  
PHYS1032L  
PHYS1033  
PHYS1033L  
PHYS2030  
PHYS2030L

**National Security Studies**

[Justice, Law & Security Website](#)

To download a National Security Studies major brochure [CLICK HERE](#).

The "National Security Studies" major is, of necessity, interdisciplinary in nature. It also requires a strong internship or co-op program to enhance the student's employment opportunities. The major has rigorous requirements and students are advised that their future employment will normally require the successful completion of a comprehensive background investigation.

A major in National Security Studies is meant to prepare students for career opportunities with federal and state agencies, that have as part of their mission the defense of the homeland or the implementation of U.S. Foreign Policy and strategic objectives; multinational corporations that require personnel with research, analytical and communication skills; and for further study at the graduate level

Students must maintain a minimum QPA of 3.2 and need to earn a minimum of a "C" in all courses taken. The program requires that the graduate possess the following skills:

- A reading competency in one of the required foreign languages
- The ability to produce written reports based on research, correlation, and analysis
- Oral presentation skills, to include computer facilitated presentations
- Knowledge of statistical techniques
- Knowledge of computer applications and data management systems.

At the beginning of a student's junior and senior year, a committee composed of the department chairs, or their representative, of the Justice, Law, and Security, International Studies, History and Modern Language Departments will review the progress of all students enrolled in the program. Students whose QPA falls below 3.2, whose foreign language reading ability is inadequate, or who exhibit behavioral or academic deficiencies that would, in the judgment of the reviewers, make future employment in the national security field unlikely, will be placed on probation or disenrolled from the major.

A minimum of 120 credits is required for degree, the last 30 of which must be earned at La Roche College.

To complete the "National Security Studies" major, the following course work is required:

- 20 Arabic or Spanish language credits
- 18 "National Security Studies" major required credits
- 12 "National Security Studies" major elective credits
- 6 Foreign Area Studies credits
- 24 Skills Component credits
- 37 Core Curriculum credits
- 3 credit internship or co-op credits

### Major Requirements: 18 credits

Macroeconomics	ADMG1005
Terrorism	CRIM3036
Global Politics	INST2001
Intelligence Analysis and Presentation Techniques	NSCS2011
National Security & Intelligence: Senior Seminar	NSCS4005
History of Political Thought	POLI3015

### National Security Studies Electives: 12 credits

Enterprise & Transnational Crime	CRIM3034
Computer Crime	CRIM3043
International Political Economy	INST3003
Financial Investigation and Analysis	NSCS3015
Emergency Preparedness and Crisis Management	NSCS4012
National Security-Independent Study	NSCS4057
Islam in the World	POLI2045
Introduction to Psychology	PSYC1021
Interpersonal & Group Dynamics	PSYC3030

### Requirements: Foreign Area Studies: 6 credits

History of Latin America	HIST2035
Contemporary Central America	HIST3005
East Asian History	INST3028
History & Politics of Africa	POLI3019
History & Politics of the Middle East	POLI3045

### Skills Component: 24 credits

Advanced Practical Computer Applications	ISTC1006
Management Of Information Systems	ISTC2021
Networking	ISTC2030
Data Base Management Systems	ISTC2045
Probability and Statistics	MATH1040
Business Intelligence	NSCS3010
Research Methods for Analysts	NSCS3011
Internship	NSCS4051

### Radiologic Technology

The radiologic technologist, or radiographer, performs sophisticated diagnostic x-ray tests to uncover a wide range of medical conditions. Radiologic technology is offered through an affiliation with the [Ohio Valley General Hospital School of Radiography](#) (Kennedy Township, PA). Students successfully completing this program are awarded an Associate in Health Science degree and are then eligible to sit for the national certification examination given by the American Registry of Radiologic Technologists.

The radiologic technology program consists of a total of 66 required credits. Basic science and Core Curriculum courses (totaling 40 credits) are taught at La Roche College, while professional courses in radiologic technology and clinical training (totaling 26 credits) are conducted at [Ohio Valley General Hospital](#). Ohio Valley General Hospital School of Radiography is accredited by the **Joint Review Committee on Education in Radiologic Technology** (JRCERT ~ 20 North Wacker Drive, Suite 900 | Chicago, Illinois 60606-2901 | Phone:312-704-5300 | Website: [www.jrcert.org](http://www.jrcert.org))



**Ohio Valley General Hospital/La Roche College Radiography Program Mission Statement:**

The Ohio Valley General Hospital/La Roche College Radiography Program will meet the needs of the communities we serve by offering a radiologic technology program that provides an environment for the development of competent and professional future radiologic technologists by offering a solid clinical and theoretical background in the Radiologic Sciences.

**Fundamental Goals:**

- To provide a quality education in the radiologic sciences in accordance with the JRCERT Standards
- To provide a curriculum that enables students to successfully meet all Core Clinical Competency requirements established by the ARRT
- To prepare students for the ARRT's national certification examination in radiography
- To equip students with entry-level diagnostic technologist skills

**Admissions Criteria and Guidelines:**

- 18 years of age by October 1st of first fall semester
- High school graduate or general equivalency diploma
- Minimum GPA of 2.5 in high school or in 12 credits from post-secondary institution
- Algebra II and Biology (high school or post-secondary) with a minimal grade of C
- Math and English proficiency as demonstrated by placing into MATH1010/1010A and ENGL1011
- Completion of 4 hours documented career shadowing with a registered radiologic technologist in a hospital setting
- Attendance records from high school or recent employer
- Two letters of recommendation from teachers or recent employers
- Completion of Technical Standards\*
- Satisfactory results of a screening for illegal drug use\*\*
- Willingness to submit to a criminal background check\*\*

This is a specialized program. As such, merit scholarships previously awarded to students are not transferable to this program. Previously awarded La Roche Merit Scholarships are void upon acceptance to the Rad Tech Program.

**Admission Guidelines:**

-Nine students are accepted to the radiography program each year. Interviews for acceptance begin in January and continue until all nine positions are filled. Interested candidates are therefore encouraged to apply early.

-Interested candidates can apply to the radiography program by completing a La Roche College admission application. You can [click here](#) to download an application in PDF format.

-Career Shadowing appointments are conducted at Ohio Valley General Hospital Monday through Friday from 7:00 a.m. until approximately 11:30 a.m. Appointments may be scheduled by calling Ohio Valley General Hospital School of Radiography at 412-777-6210.

-COMPASS testing appointments may be made by contacting La Roche College's Academic Enrichment Office at 412-546-1231. A five-dollar testing fee will apply.

\* Technical Standards testing ensures that applicants have the ability to perform the basic physical tasks required for the profession of Radiologic

**\*\* Drug screenings and background checks are conducted by Ohio Valley General Hospital at summer orientation before the first fall semester. Students who test positive for illegal drugs or refuse to grant permission for the criminal background check will forfeit their position in the radiography program and will lose their deposit.**

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## Courses

The required course work consists of:

### 26 credits in radiologic technology (taught at Ohio Valley General Hospital School of Radiography):

Radiologic Technology I	HSCU2001
Clinical Education I	HSCU2002
Radiography Technology II	HSCU2003
Clinical Education II	HSCU2004
Radiologic Technology III	HSCU2005
Clinical Education III	HSCU2006
Radiologic Technology IV	HSCU2007
Clinical Education IV	HSCU2008
Radiologic Technology V	HSCU2009
Clinical Education V	HSCU2010
Radiologic Technology VI	HSCU2011
Clinical Education VI	HSCU2012

### Core Curriculum: 21 credits

College Writing I	ENGL1011
College Writing II	ENGL1012
Global/Community Course	GLBL/COMM
Practical Computer Applications	ISTC1005
Introduction to Psychology	PSYC1021
CORE Courses/SELECT	SEL
CORE Courses/SELECT	SEL

### Natural Science & Mathematics: 22 credits

Life Science-Lab	BIOL1000
Life Science	BIOL1001
Medical Terminology	BIOL1020
Human Anatomy & Physiology I	BIOL1023
Human Anatomy & Physiology I-Lab	BIOL1023L
Human Anatomy & Physiology II	BIOL1024
Human Anatomy & Physiology II-Lab	BIOL1024L
College Algebra	MATH1010
Physics for Health Sciences	PHYS1010
Physics for Health Science-Lab	PHYS1010L

### Applied Physics Minor

#### [Math-Physics Department Website](#)

A total of 24 credits is required for completion of a minor in Applied Physics. Students must achieve a minimum GPA of 2.0 in the following courses to qualify for the minor. NOTE: All labs are zero (0) credits and must be taken with the corresponding course.

### Required Courses:

Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L
Physics III	PHYS2030
Physics III-Lab	PHYS2030L
Analog Electronics I	PHYS2080
Analog Electronics I-Lab	PHYS2080L
Digital Electronics II	PHYS3080
Digital Electronics II-Lab	PHYS3080L

**Six (6) credits (2 courses) selected from the following:**

Computational Physics	PHYS3075
Electronic Communication	PHYS3082
Electronic Communication-Lab	PHYS3082L
Physics of Information Theory	PHYS4075
Instrumentation Physics	PHYS4080
Instrumentation Physics-Lab	PHYS4080L

**Biology Minor**

To complete a minor in biology, a minimum of 22 credits must be taken in biology. In addition to the 8 credits of required course work, students must take a minimum of 14 additional biology credits in 2000 level courses or above. The student can expect to take three academic years to complete the minor, because many upper level biology courses are offered on a two-year cycle.

**Required Courses: 8 credits**

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006

**Chemistry Minor**

[Chemistry Department Website](#)

To complete a minor in chemistry, a minimum of 23 chemistry credits must be taken. In addition to required courses, students must choose at least 3 additional credits from any chemistry course 2000 level or above. The student can expect to take three academic years to complete the minor because many upper level chemistry courses are offered on a two-year cycle.

**Required Chemistry Courses: (Select CHEM3011/L or CHEM4032/L or CHEM4033/L)**

General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II-Lab	CHEM2016L
Organic Chemistry II-Lab	CHEM2016L
Analytical Chemistry I	CHEM3011
Analytical Chemistry I-Lab	CHEM3011L
Physical Chemistry I	CHEM4032
Physical Chemistry I-Lab	CHEM4032L
Physical Chemistry II	CHEM4033
Physical Chemistry II-Lab	CHEM4033L
Chemistry Elective	CHEMXXXX

**Computer Science Minor**

[Computer Science Department Website](#)

A minor in Computer Science is an opportunity for students to fulfill career or personal interests, and/or to facilitate in depth study in a field of secondary interest.

Minors must be completed within the student's graduation timeline. A minimum GPA of 2.0 must be achieved in the following courses to qualify for this minor.

To complete a minor in computer science, a minimum of 23 credits must be taken in computer science in accordance with the following schedule. 17 credits in Required Courses and a minimum of 6 additional 2000+ level computer-science credits.

**Computer Science Minor Electives: Choose 6 Credits from the following 2000+ Level courses**

Computer Forensics Investigations	CRIM4030
Systems Programming	CSCI2025
Computer Organization & Design	CSCI2035
Database Systems Theory	CSCI2055
Operating Systems	CSCI3040

Computer Security	CSCI3042
Compiler Design	CSCI4010
Introduction to Software Engineering	CSCI4020
Telecommunications I	CSCI4045
Telecommunications II	CSCI4046
Advanced Database Theory	CSCI4055
Introduction to Artificial Intelligence	CSCI4070
Discrete Mathematics II	MATH2051

#### **Required Courses: 17 credits**

Introduction to Computer Science	CSCI1002
Programming I	CSCI1010
Programming I Lab	CSCI1010L
Programming II	CSCI2010
Programming II Lab	CSCI2010L
Algorithm Analysis	CSCI2020
Discrete Mathematics I	MATH2050

#### **Computer Security & Forensics Minor**

As new technology continues to play an ever-increasing role in our society, so do the opportunities for its exploitation. Computer hackers now routinely threaten private citizens, businesses and governments. Effectively combating these threats will require a new type of professional who has expertise in both disciplines, criminal justice and technology. In law enforcement, there is a need for professionals that can join the fight against cyber crime, cyber terrorism, identity theft, and the exploitation of minors. In business, there is a need for professionals with the necessary technology skills for recognizing and mitigating the threats and vulnerabilities of computers and networks. The Computer Security and Forensics minor brings together the disciplines of technology and criminal justice to uniquely prepare students for careers at the intersection of these two fields.

To successfully complete the Computer Security and Forensics minor, a minimum of 18 credits are required.

Please note, there are separate requirements for Criminal Justice majors and Information Systems Technology/Computer Science Majors.

#### **Requirements for All Majors:**

Computer Crime	CRIM3043
Computer Forensics Investigations	CRIM4030
Computer Security	CSCI3042
Networking	ISTC2030

#### **Requirements for Criminal Justice Majors:**

Introduction to Computer Science	CSCI1002
Programming I	CSCI1010
Programming I Lab	CSCI1010L

#### **Requirements for Information Systems Technology/Computer Science Majors:**

Introduction to the Criminal Justice System	CRIM1001
Criminal Law	CRIM3010

#### **Criminal Justice Minor**

##### [Justice, Law & Security Website](#)

15 credits are required for completion of a minor in Criminal Justice inclusive of the following courses and three criminal justice electives (9 credits) with at least one upper-division course (3000 level or higher).

#### **Minor Requirements: 15 credits**

Introduction to the Criminal Justice System	CRIM1001
Constitutional Law	CRIM2005
Criminal Law	CRIM3010
Criminal Justice Elective	CRIMXXXX
Criminal Justice Elective	CRIMXXXX
Criminal Justice Elective	CRIMXXXX

#### **Mathematics Minor**

A minor in Mathematics would be advantageous to a student contemplating graduate study in many sciences, engineering, telecommunications or financial mathematics.

To complete a minor in mathematics, 7 courses (24 credits) must be taken in mathematics in accordance with the following schedule.

Minor courses must be completed within the student's graduation timeline. A minimum GPA of 2.0 must be achieved in the minor coursework.

Please note, with the exception of the three 4-credit Calculus courses, mathematics courses are worth 3 credits. Inasmuch as the required courses are sequential and ordinarily offered yearly, the student may complete the minor in mathematics in - to reckon from the commencement of the semester in which Analytical Geometry and Calculus I is taken (and passed) - as few as two and one-half academic years; it is more likely, however, that the completion of the minor will require at least three full academic years. Owing to the fundamental nature mathematics, several majors at La Roche entail either a minor in mathematics or a significant part thereof.

#### **Required Courses: 24 credits**

Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Analytic Geometry & Calculus III	MATH2030
Ordinary Differential Equations	MATH2031
Discrete Mathematics I	MATH2050
Discrete Mathematics II	MATH2051
Linear Algebra	MATH3015

#### **Medical Technology Minor**

The Medical Technology Minor is meant to be paired with the B.A. in Biology major.

Required coursework is offered during the day only; three academic years are needed to complete the minor coursework, followed by a senior year, 30 credit hour, externship at a hospital-based school of medical technology (accredited by the National Accrediting Agency for Clinical Laboratory Sciences-NAACLS). Students apply for acceptance at accredited medical technology programs-La Roche College does not place students into specific medical technology schools. Information on accredited programs can be obtained from the Coordinator of Health Science Programs.

To successfully complete the Medical Technology Minor, the following coursework is required:

- 38 credits of Medical Technology Requirements
- 22 credits of Biology Electives as preparation for the Medical Technology externship

#### **Biology Electives: 22 credits**

Comparative Vertebrate Anatomy & Physiology I	BIOL2021
Comparative Vertebrate Anatomy & Physiology II	BIOL2022
Microbiology	BIOL2025
Genetics	BIOL3013
Immunology	BIOL4019
Immunology-Lab	BIOL4020
Molecular Biology	BIOL4030

#### **Medical Technology Minor Requirements: 38 credits**

Analytical Chemistry I	CHEM3011
Analytical Chemistry I-Lab	CHEM3011L
Biochemistry I	CHEM3036
Biochemistry I-Lab	CHEM3037

#### **Molecular Biology Minor**

To complete a minor in molecular biology, a minimum of 24 credits must be taken in biology. The student can expect to take three academic years to complete the minor because many upper level biology courses are offered on a two-year cycle.

Note: Prerequisites for Molecular Biology and Laboratory include General and Organic Chemistry (CHEM1001, CHEM1002, CHEM1003, CHEM1004, CHEM2015 or permission of instructor).

#### **Required Courses: 12 credits**

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
Molecular Biology	BIOL4030
Molecular Biology-Lab	BIOL4031

#### **Select at least 12 additional credits from the following courses:**

Microbiology	BIOL2025
Genetics	BIOL3013
Genetics-Lab	BIOL3014
Cell Biology	BIOL3026
Biochemistry I	BIOL3036
Biochemistry-Lab	BIOL3037
Biochemistry II	BIOL3038
Immunology	BIOL4019
Immunology-Lab	BIOL4020

#### **Political Science Minor**

The goal of the political science minor is to offer La Roche students exposure to the general study of political science, and to gain a basic understanding of the political science sub-fields of American Politics and Comparative Politics. Outcomes of the political science minor are: achievement of a general understanding of the American political system; achieving the ability to assess and analyze differing governments and political systems in various parts of the world; and understanding key concepts in political thought.

**REQUIRED COURSES: 15 credits required for minor, divided among three (3) credit required courses and 2 (3)three credit advanced Political Science courses:**

**Political Science Major Electives -- 24 credits selected from the following two sub-fields.**

**American Politics (no more than 15 credits from this sub-field)**

Internship in Political Science	POLI4051
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#### **Required Courses: 9 credits**

American Government	POLI1022
History of Political Thought	POLI3015
Comparative Government	POLI3021

#### **Required Electives: 6 credits-Any two 3000-level-Political Science- 3 credit courses:**

Political Science 3000-level	POLI3XXX
Political Science 3000-level	POLI3XXX

#### **Pre-law Minor**

##### [Justice, Law & Security Website](#)

Law schools look for students with critical thinking skills and problem solving abilities, as well as strong writing and oral communication skills. The courses required for completion of a Pre-Law Minor should help students develop those types of skills.

Three academic years are estimated for the Pre-Law Minor with respect to fall/spring course rotation and prerequisites. Students interested in preparing for the LSAT examination should consult with the chair of the Justice, Law, and Security Department for assistance. Completion of this minor alone may not necessarily facilitate adequate preparation for this professional credential.

30 credits are required for completion of the Pre-Law Minor. In addition to the required courses shown below, students must take the following:

- One 2000-level English course
- Two upper-level courses selected from the following departments: Philosophy, Psychology, Sociology and Criminal Justice

**Required Courses (Select SPHC1001 or ADMG3024 or CRIM2011; Note CRIM2005 is crosslisted with POLI2005)**

Professional Presentations	ADMG3024
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Constitutional Law  
Intelligence Analysis and Presentation Techniques  
Advanced Exposition  
A History of American Values, Beliefs and Ideas  
Logic  
Ethics  
American Government  
Constitutional Law  
Modern Public Speaking

CRIM2005  
CRIM2011  
ENGL3037  
HIST3036  
PHIL1020  
PHIL2026  
POLI1022  
POLI2005  
SPCH1001

### **Criminalistics Certificate**

#### [Justice, Law & Security Website](#)

The Justice, Law & Security Department, in coordination with the departments of Biology and Chemistry, offers a Certificate in Forensic Arts and Sciences. This certificate will be awarded to those who have demonstrated proficiency in the forensic application of the sciences of Biology and Chemistry. This forensic application entails a basic understanding and demonstrated knowledge of selected subject matter areas of the Criminal Justice System. Students must be enrolled concurrently in one of the following majors: Biology with Forencis, Chemistry with Forensics, or Criminal Justice.

Requirements for completion of a Certificate in Forensic Arts and Sciences are as follows:

- 

#### **RESEARCH REQUIREMENT**

During the Senior Seminar or Capstone course, the candidate will complete a research project on an area in forensic science. The proposed topic will be submitted in writing and approved by the coordinating committee, the members of which will ensure that the approval criteria and evaluation criteria are consistent for each project.

#### **Coordinating Committee:**

- Lawrence E. Likar, MA., JD

Associate Professor and Chair, Department of Justice, Law, and Security

Supervisory Special Agent FBI (Ret'd)

- Gail Rowe, Ph.D.

Professor, Biology Department

- Don Fujito, Ph.D.

## GRADE REQUIREMENT

All candidates must receive a minimum grade of "C" for each forensic component course and the research project. Criminal Justice majors must also receive a minimum grade of "C" in all required science courses.

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Introduction to the Criminal Justice System	CRIM1001
Criminal Law	CRIM3010
Crime Scene & Forensics Laboratory	CRIM3040
Criminalistics	CRIM3041
Criminal Investigations	CRIM3045
Ethics	PHIL2026

## Forensic Psychology

The Department of Psychology, in coordination with the Department of Law, Justice and Security, offers a certificate in Forensic Psychology. The certificate will be awarded to students who successfully complete the course requirements and demonstrate a basic understanding and knowledge of selected subject matter in Psychology and Criminal Justice.

Critical Skills for Psychology Students	PSYC3070
<b>Required Courses: 24 credits</b>	

Introduction to the Criminal Justice System	CRIM1001
Analysis of Criminal Justice Data	CRIM2012
Theories of Criminal Deviance	CRIM3030
Introduction to Psychology	PSYC1021
Research Methods in Psychology	PSYC3011
Abnormal Psychology	PSYC3023
Criminal Behavior: Law and Psychology	PSYC3063
Forensic Psychology	PSYC3065

## Athletic Training

### Athletic Training Program

Athletic training is an allied health profession that is recognized by the American Medical Association. Certified Athletic Trainers (ATC), under the supervision of a licensed physician, provide care for athletes and those who are physically active within these areas of clinical practice:

- prevention
- recognition, evaluation and assessment;
- treatment, rehabilitation, and reconditioning
- organization and administration; and
- professional development and responsibility.

Certified athletic trainers are specialists in the area of sports medicine, which is a general term that refers to a very broad scope of care and services that are necessary to maintain the overall health and performance of those who are physically active or who participate in sports.



### **Employment and career opportunities**

Certified athletic trainers are employed by high schools, colleges and universities, professional athletic teams, private sports medicine centers, rehabilitation clinics, hospitals, health and fitness-related settings, the military, and corporations. Athletic trainers can also pursue career growth options in equipment development, corporate fitness, rehabilitation facilities, orthopedics, and nutrition and weight management.

### **The La Roche College-Duquesne University Affiliation**

In this program, students majoring in athletic training complete a pre-professional program at La Roche College (designed to take a minimum of two years), and then transfer to Duquesne University to complete their professional phase in athletic training (designed to take another two years). Students who successfully complete this program earn a Bachelor of Science in Athletic Training from Duquesne University.

### **The Duquesne Athletic Training Curriculum**

Student professional preparation at Duquesne is directed toward the development of specified competencies in the following domains: risk management and injury prevention, pathology of injury and illnesses, assessment and evaluation, acute care of injury and illness, pharmacology, therapeutic modalities, therapeutic exercise, general medical conditions and disabilities, nutrition, health care administration, psychosocial intervention and referral, and professional development and responsibilities.

### **Accreditation and Certification**

Duquesne University's athletic training education program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). The American Academy of Family Physicians, the American Academy of Pediatrics, the American Orthopedic Society for Sports Medicine, CAAHEP, and the National Athletic Trainers' Association cooperate to establish, maintain and promote the standards for the quality of CAAHEP-accredited educational programs in athletic training.

Graduates of the Duquesne program in athletic training will be eligible to sit for the National Athletic Trainers' Association Board of Certification Examination, as well as be eligible for Pennsylvania Athletic Trainer Certification.

### **Admission to the Athletic Training Program**

**Freshman admission:** All students admitted to La Roche College who intend to major in athletic training will be initially designated as "Athletic Training candidates". Athletic Training candidates will be automatically considered for full admission to the athletic training major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA of 2.75. The high school curriculum must have included at least:

- 4 Units of English
- 1 Unit in Social Studies or Foreign Language
- 7 Units in Math and Science
- 4 Electives

In addition, prospective students must demonstrate evidence of extracurricular activities during high school and have the ability to meet all of the medical and performance/technical standards of Duquesne University's program. The pre-professional phase is completed at La Roche College in two years. The La Roche College portion of this program requires three courses (with labs) to be taken at Duquesne University. Students are expected to provide their own transportation. This program will require the student to take summer classes.

Students then apply to Duquesne University for the professional phase. La Roche College is guaranteed an allotment of five students every year. In event that more than five have entered the program, only the top five will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science Faculty.

**Transfer admission:** Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in athletic training. Each student will be evaluated individually by the Coordinator of Health Science Programs.

### **Admission to Duquesne University**

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche athletic training major must submit a Duquesne University Application for Undergraduate Admissions by Dec 1st for consideration for the following fall semester at Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Academic requirements for admission to Duquesne University for the professional phase of the athletic training program include:

- successful completion of all professional course work with a 3.0 cumulative QPA at La Roche College, and a "C" or better in all courses
- a "B" or better in ATHTR 201 (Essential Concepts and Techniques in Athletic Training) and ATHTR 202 (Pre-Professional Practicum in AT)
- recommendation by the La Roche Pre-professional Health Committee
- Documentation of current C.P.R. Certification (including adult, infant, and child CPR)
- completion of a physical examination and other health requirements
- recommendation of the Department of Athletic Training upon completion of a personal interview.

## Curriculum

The pre-professional phase at La Roche College consists of 67 credits to be completed over a two-year period, with course requirements outlined below.

The professional phase at Duquesne University consists of 63 credits completed over an additional two-year period. Students in this program also have an option to pursue a joint degree program leading to a Master of Science in Education, a Master of Occupational Therapy, or a Master of Physician Assistant.

**To complete the Pre-Professional Phase at La Roche College the following coursework is required:**

- 37 credits of Major Requirements (includes 5 credits of Athletic Training courses taken as PCHE courses)
- 30 credits of Additional courses (see program guide for specific courses that will meet Duquesne requirements) This will include a Theology, Creative Arts, Global Diversity and Social Justice course, not listed below.

### Additional Requirments: 30 credits

College Writing I	ENGL1011
College Writing I-Lab	ENGL1011L
College Writing II	ENGL1012
Introduction to Philosophy	PHIL1021
Biomedical Ethics	PHIL3027
Introduction to Psychology	PSYC1021

### Major Requirments: 37 credits

General Biology I	BIOL1003
General Biology I-Lab	BIOL1005
Medical Terminology	BIOL1020
Human Anatomy & Physiology I	BIOL1023
Human Anatomy & Physiology I-Lab	BIOL1023L
Human Anatomy & Physiology II	BIOL1024
Human Anatomy & Physiology II-Lab	BIOL1024L
Principles of Chemistry I	CHEM1007
Principles of Chemistry I-Lab	CHEM1008
Probability and Statistics	MATH1040
Physics for Health Sciences	PHYS1010
Physics for Health Science-Lab	PHYS1010L
Introduction to Computer Science: Bits, Bytes and Beyond.	SLSC1005

### Bioengineering

Dual Degree: Liberal Arts Degree from La Roche with Bachelor of Science in Engineering from University of Pittsburgh.

To successfully complete the terms of the articulation agreement, the following is required:

- must be enrolled at LRC for at least the past 2 years
- must have a QPA of 3.0 or higher (3.5 for Bioengineering) at time of application to University of Pittsburgh engineering program
- must receive favorable recommendation from the combined degree program liason at LRC
- must successfully complete all science and math pre-requisite course requirements for their intended engineering major with a grade of C or better and a GPA of 3.0 or better
- must have completed the major requirements prescribed by their LRC program prior to commencing study at the University of Pittsburgh or have a written plan in place to show how these requirements will be met at the University of Pittsburgh

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005

General Biology II-Lab	BIOL1006
Comparative Vertebrate Anatomy & Physiology I	BIOL2021
Comparative Vertebrate Anatomy & Physiology I-Lab	BIOL2021L
Comparative Vertebrate Anatomy & Physiology II	BIOL2022
Comparative Vertebrate Anatomy & Physiology II-Lab	BIOL2022L
Microbiology	BIOL2025
Microbiology-Lab	BIOL2025L
Genetics	BIOL3013
General Ecology	BIOL3015
Cell Biology	BIOL3026
Biochemistry I	BIOL3036
Immunology	BIOL4019
Immunology	BIOL4019
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Programming I	CSCI1010
Programming I Lab	CSCI1010L
Programming II	CSCI2010
Programming II Lab	CSCI2010L
Algorithm Analysis	CSCI2020
Systems Programming	CSCI2025
Systems Programming Lab	CSCI2025L
Database Systems Theory	CSCI2055
Operating Systems	CSCI3040
Telecommunications I	CSCI4045
Advanced Database Theory	CSCI4055
Statistics and Mechanics of Materials I	ENGR0135
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Analytic Geometry & Calculus III	MATH2030
Ordinary Differential Equations	MATH2031
Discrete Mathematics I	MATH2050
Discrete Mathematics II	MATH2051
Linear Algebra	MATH3015
Complex Analysis	MATH3035
Probability and Statistics I	MATH3040
Probability and Statistics II	MATH3045
History of Mathematics	MATH4003
Modern Abstract Algebra	MATH4015
Geometry	MATH4020
Real Analysis	MATH4035
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

## Chemical Engineering

Dual Degree: Liberal Arts Degree from La Roche with Bachelor of Science in Engineering from University of Pittsburgh.

To successfully complete the terms of the articulation agreement, the following is required:

- must be enrolled at LRC for at least the past 2 years
- must have a QPA of 3.0 or higher (3.5 for Bioengineering) at time of application to University of Pittsburgh engineering program
- must receive favorable recommendation from the combined degree program liaison at LRC
- must successfully complete all science and math pre-requisite course requirements for their intended engineering major with a grade of C or better and a GPA of 3.0 or better

- must have completed the major requirements prescribed by their LRC program prior to commencing study at the University of Pittsburgh or have a written plan in place to show how these requirements will be met at the University of Pittsburgh

Microbiology	BIOL2025
Microbiology-Lab	BIOL2025L
Genetics	BIOL3013
General Ecology	BIOL3015
Cell Biology	BIOL3026
Biochemistry I	BIOL3036
Immunology	BIOL4019
Molecular Biology	BIOL4030
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Analytical Chemistry I	CHEM3011
Analytical Chemistry I-Lab	CHEM3011L
Polymer Chemistry	CHEM3015
Biochemistry I	CHEM3036
Physical Chemistry II-Lab	CHEM4033L
Programming I	CSCI1010
Programming I Lab	CSCI1010L
Programming II	CSCI2010
Programming II	CSCI2010
Programming II Lab	CSCI2010L
Programming II Lab	CSCI2010L
Algorithm Analysis	CSCI2020
Systems Programming	CSCI2025
Systems Programming Lab	CSCI2025L
Database Systems Theory	CSCI2055
Operating Systems	CSCI3040
Numerical Computing I	CSCI4050
Advanced Database Theory	CSCI4055
Materials Structure and Properties	ENGR0022
Statistics and Mechanics of Materials I	ENGR0135
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Analytic Geometry & Calculus III	MATH2030
Ordinary Differential Equations	MATH2031
Discrete Mathematics I	MATH2050
Discrete Mathematics II	MATH2051
Complex Analysis	MATH3035
Probability and Statistics I	MATH3040
Probability and Statistics II	MATH3045
History of Mathematics	MATH4003
Modern Abstract Algebra	MATH4015
Geometry	MATH4020
Real Analysis	MATH4035
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

### Computer Engineering

Dual Degree: Liberal Arts Degree from La Roche with Bachelor of Science in Engineering from University of Pittsburgh.

To successfully complete the terms of the articulation agreement, the following is required:

- must be enrolled at LRC for at least the past 2 years

- must have a QPA of 3.0 or higher (3.5 for Bioengineering) at time of application to University of Pittsburgh engineering program
- must receive favorable recommendation from the combined degree program liaison at LRC
- must successfully complete all science and math pre-requisite course requirements for their intended engineering major with a grade of C or better and a GPA of 3.0 or better
- must have completed the major requirements prescribed by their LRC program prior to commencing study at the University of Pittsburgh or have a written plan in place to show how these requirements will be met at the University of Pittsburgh

Microbiology	BIOL2025
Microbiology-Lab	BIOL2025L
Genetics	BIOL3013
General Ecology	BIOL3015
Cell Biology	BIOL3026
Biochemistry I	BIOL3036
Immunology	BIOL4019
Molecular Biology	BIOL4030
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Programming I	CSCI1010
Programming I Lab	CSCI1010L
Programming II	CSCI2010
Programming II	CSCI2010
Programming II Lab	CSCI2010L
Programming II Lab	CSCI2010L
Algorithm Analysis	CSCI2020
Systems Programming	CSCI2025
Systems Programming Lab	CSCI2025L
Database Systems Theory	CSCI2055
Operating Systems	CSCI3040
Telecommunications I	CSCI4045
Telecommunications I	CSCI4045
Advanced Database Theory	CSCI4055
College Writing II	ENGL1012
Business Communications	ENGL2029
Technical Writing	ENGL2030
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Ordinary Differential Equations	MATH2031
Discrete Mathematics I	MATH2050
Discrete Mathematics II	MATH2051
Linear Algebra	MATH3015
Probability and Statistics II	MATH3045
History of Mathematics	MATH4003
Modern Abstract Algebra	MATH4015
Geometry	MATH4020
Real Analysis	MATH4035
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L
Modern Public Speaking	SPCH1001

### **Electrical Engineering**

Dual Degree: Liberal Arts Degree from La Roche with Bachelor of Science in Engineering from University of Pittsburgh.

To successfully complete the terms of the articulation agreement, the following is required:

- must be enrolled at LRC for at least the past 2 years

- must have a QPA of 3.0 or higher (3.5 for Bioengineering) at time of application to University of Pittsburgh engineering program
- must receive favorable recommendation from the combined degree program liaison at LRC
- must successfully complete all science and math pre-requisite course requirements for their intended engineering major with a grade of C or better and a GPA of 3.0 or better
- must have completed the major requirements prescribed by their LRC program prior to commencing study at the University of Pittsburgh or have a written plan in place to show how these requirements will be met at the University of Pittsburgh

Microbiology	BIOL2025
Microbiology-Lab	BIOL2025L
Genetics	BIOL3013
General Ecology	BIOL3015
Cell Biology	BIOL3026
Biochemistry I	BIOL3036
Immunology	BIOL4019
Molecular Biology	BIOL4030
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Programming I	CSCI1010
Programming I Lab	CSCI1010L
Programming II	CSCI2010
Programming II Lab	CSCI2010L
Algorithm Analysis	CSCI2020
Systems Programming	CSCI2025
Systems Programming Lab	CSCI2025L
Database Systems Theory	CSCI2055
Operating Systems	CSCI3040
Telecommunications I	CSCI4045
Advanced Database Theory	CSCI4055
College Writing II	ENGL1012
Business Communications	ENGL2029
Technical Writing	ENGL2030
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Analytic Geometry & Calculus III	MATH2030
Ordinary Differential Equations	MATH2031
Discrete Mathematics I	MATH2050
Discrete Mathematics II	MATH2051
Linear Algebra	MATH3015
Probability and Statistics I	MATH3040
Probability and Statistics II	MATH3045
History of Mathematics	MATH4003
Modern Abstract Algebra	MATH4015
Geometry	MATH4020
Real Analysis	MATH4035
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L
Modern Public Speaking	SPCH1001

### Engineering Science

Dual Degree: Liberal Arts Degree from La Roche with Bachelor of Science in Engineering from University of Pittsburgh.

To successfully complete the terms of the articulation agreement, the following is required:

- must be enrolled at LRC for at least the past 2 years
- must have a QPA of 3.0 or higher (3.5 for Bioengineering) at time of application to University of Pittsburgh engineering program

- must receive favorable recommendation from the combined degree program liaison at LRC
- must successfully complete all science and math pre-requisite course requirements for their intended engineering major with a grade of C or better and a GPA of 3.0 or better
- must have completed the major requirements prescribed by their LRC program prior to commencing study at the University of Pittsburgh or have a written plan in place to show how these requirements will be met at the University of Pittsburgh

General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Inorganic Chemistry	CHEM3026
Biochemistry I	CHEM3036
Physical Chemistry I	CHEM4032
Physical Chemistry II	CHEM4033
Programming I	CSCI1010
Programming I Lab	CSCI1010L
Materials Structure and Properties	ENGR0022
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Analytic Geometry & Calculus III	MATH2030
Ordinary Differential Equations	MATH2031
Linear Algebra	MATH3015
Complex Analysis	MATH3035
Probability and Statistics I	MATH3040
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L

### Industrial Engineering

Dual Degree: Liberal Arts Degree from La Roche with Bachelor of Science in Engineering from University of Pittsburgh.

To successfully complete the terms of the articulation agreement, the following is required:

- must be enrolled at LRC for at least the past 2 years
- must have a QPA of 3.0 or higher (3.5 for Bioengineering) at time of application to University of Pittsburgh engineering program
- must receive favorable recommendation from the combined degree program liaison at LRC
- must successfully complete all science and math pre-requisite course requirements for their intended engineering major with a grade of C or better and a GPA of 3.0 or better
- must have completed the major requirements prescribed by their LRC program prior to commencing study at the University of Pittsburgh or have a written plan in place to show how these requirements will be met at the University of Pittsburgh

Microbiology	BIOL2025
Microbiology-Lab	BIOL2025L
Genetics	BIOL3013
General Ecology	BIOL3015
Cell Biology	BIOL3026
Biochemistry I	BIOL3036
Immunology	BIOL4019
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004

Programming I	CSCI1010
Programming I Lab	CSCI1010L
Programming II	CSCI2010
Programming II Lab	CSCI2010L
Algorithm Analysis	CSCI2020
Systems Programming	CSCI2025
Systems Programming Lab	CSCI2025L
Database Systems Theory	CSCI2055
Database Systems Theory	CSCI2055
Operating Systems	CSCI3040
Telecommunications I	CSCI4045
Advanced Database Theory	CSCI4055
Materials Structure and Properties	ENGR0022
Statistics and Mechanics of Materials I	ENGR0135
Engineering Economic Analysis	IE1040
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Analytic Geometry & Calculus III	MATH2030
Ordinary Differential Equations	MATH2031
Discrete Mathematics I	MATH2050
Discrete Mathematics II	MATH2051
Linear Algebra	MATH3015
Probability and Statistics I	MATH3040
Probability and Statistics II	MATH3045
Probability and Statistics II	MATH3045
History of Mathematics	MATH4003
Modern Abstract Algebra	MATH4015
Geometry	MATH4020
Real Analysis	MATH4035
Intro to Thermodynamics	MEMS0051
Physics I	PHYS1032
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L
Modern Public Speaking	SPCH1001

## **Occupational Therapy**

### **The Occupational Therapy Profession**

Occupations are the essence of productive living. Occupational therapists focus on the occupations used by people to live full, independent, quality lives. Occupations or activities of daily living include work or education, self-care, play/leisure and the effect that rest has on these activities. The goal of this profession is to maximize a person's ability to perform culturally appropriate daily occupations, which is an important value in today's healthcare system.

Occupational therapists work with persons to promote an individualized, self-determined balance of occupations throughout the lifespan. Occupational performance is developed and enhanced by treating the "whole person" and attending to physical, psychological, emotional, sociocultural and spiritual issues, as influenced by the environment.

Occupational therapy direct and indirect service delivery contexts are exceedingly diverse. They include but are not limited to acute care, industrial rehabilitation, physical rehabilitation, mental health, long-term care, home care, case management, consultation, school systems, early intervention, community services, education, disease prevention and health promotion. Important related concepts such as quality of life, production function, independent living, full access, social-political integration, multiculturalism, and balanced lifestyles are central to occupational therapy practice. As a result, graduates of this program must be able to evaluate emerging information, anticipate new practice opportunities, develop new knowledge, participate in research, guide professional decisions, cooperate effectively with a variety of groups, and serve as professional leaders and community advocates.

### **Employment and Career Opportunities**

Opportunities for employment can be found in healthcare centers, public and private schools, rehabilitation centers, psychiatric institutions, skilled nursing facilities, private practices, community agencies, independent living centers, hospitals, home healthcare and industry. Occupational therapists are increasingly assuming supervisory, case management and community-based roles.

### **The La Roche College-Duquesne University Affiliation**

In this program, students majoring in occupational therapy complete a pre-professional program at La Roche College (designed to take a minimum of two years), and then transfer to Duquesne University to complete their professional phase in occupational therapy (designed to take another three years). Students who successfully complete this program earn a Bachelor of Science (BS) in Health Sciences after year four, and a Master of Occupational Therapy (MOT) at the end of the program. Both degrees are awarded by Duquesne University.

### **Accreditation and Certification**

Duquesne University's occupational therapy program is accredited by the Accreditation Council for Occupational Therapy Education.

Graduates of the Duquesne program will be eligible to sit for the national certification examination administered by the National Board for



Certification in Occupational Therapy and, if successful, will be certified as an Occupational Therapist, Registered (OTR) and can apply for state licensure, if required.

### **Admission to the Occupational Therapy Program**

#### **Freshman admission:**

All students admitted to La Roche College who intend to major in occupational therapy will be initially designated as "Occupational Therapy candidates". Occupational Therapy candidates will be automatically considered for full admission to the occupational therapy major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA 3.0. The high school curriculum must have included at least seven units in Math and Science.

In addition, prospective students must demonstrate evidence of extracurricular activities during high school and knowledge of the occupational therapy profession as evidenced by 60 hours of documented shadowing experiences with a licensed occupational therapist. An additional 60 hours of shadowing or community service must also be completed. Ideally, at least 30 hours of these shadowing experiences ought to be completed prior to starting the freshman year. All 120 hours must be completed prior to admission to the professional phase.

The pre-professional phase is completed at La Roche College in two years. Students then apply to Duquesne University for the professional phase. The completion of the La Roche College phase requires taking a minimum of two courses at Duquesne University in the sophomore year and summer courses. Students are expected to provide their own transportation. La Roche College is guaranteed an allotment of five students every year. In the event that more than five students have entered the program, only the top five will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science faculty.

#### **Transfer admission:**

Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in occupational therapy. Each student will be evaluated individually by the Coordinator of Health Science Programs.

#### **Admission to Duquesne University**

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche occupational therapy major must submit a Duquesne University Application for Undergraduate Admissions by Dec 1st for consideration for the following fall semester at Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

### **Curriculum**

The pre-professional phase at La Roche College consists of 68 credits to be completed over a two-year period, with the required coursework below. The professional phase at Duquesne University consists of 112 credits completed over a three-year period.

#### **To complete the Pre-Professional Phase at La Roche College the following coursework is required:**

- 35 credits of Science and Math (includes 7 credits of Occupational Therapy courses taken as PCHE courses)
- 33 credits of Additional courses (see program guide for courses that will fulfill Duquesne requirements) This includes a Theology, Creative Arts, Global Diversity and Social Justice course, not listed below.

#### **Additional Courses: 33 credits**

College Writing I	ENGL1011
College Writing I-Lab	ENGL1011L
College Writing II	ENGL1012
General Elective	GNRLXXXX
Introduction to Philosophy	PHIL1021
Biomedical Ethics	PHIL3027
Introduction to Psychology	PSYC1021
Sociology Elective	SOCLXXXX

#### **Science and Math Requirements: 35 credits**

General Biology I	BIOL1003
General Biology I-Lab	BIOL1005
Medical Terminology	BIOL1020
Human Anatomy & Physiology I	BIOL1023
Human Anatomy & Physiology I-Lab	BIOL1023L
Human Anatomy & Physiology II	BIOL1024
Human Anatomy & Physiology II-Lab	BIOL1024L
College Algebra	MATH1010
Probability and Statistics	MATH1040
Physics for Health Sciences	PHYS1010
Physics for Health Science-Lab	PHYS1010L
Introduction to Computer Science: Bits, Bytes and Beyond.	SLSC1005

### **Physical Therapy**

## **The Physical Therapy Profession**

Physical therapy is a dynamic profession with an established theoretical base and widespread clinical applications in the preservation, development and restoration of optimal physical function throughout the lifespan. The American Physical Therapy Association (APTA) has published the following vision statement: By 2020, physical therapy will be provided by physical therapists who are doctors of physical therapy, recognized by consumers and other health care professionals as the practitioners of choice to whom consumers have direct access for the diagnosis of, interventions for and prevention of impairments, functional limitations and disabilities related to movement, function and health.

Physical therapists engage in an examination process that includes taking the history, conducting a review of body systems, and administering tests and measures to identify potential and existing functional problems. Physical therapists develop treatment programs and conduct re-examinations to achieve anticipated goals and outcomes. Charges for physical therapy

Earning a License to Practice.

Students must graduate from an accredited physical therapy program in order to be permitted to sit for state licensing examinations. Graduates generally take the state licensing examination in the state or jurisdiction in which they wish to practice and must pass the exam in order to receive a license. Graduation from a physical therapy program alone does not permit the graduate to practice and it is illegal to practice physical therapy without a license.

## **Employment and Career Opportunities**

Graduates have opportunities to specialize in areas like: pediatrics, sports medicine, rheumatology, orthopedics, cardiopulmonary rehabilitation, critical care, geriatrics, rehabilitation, community education, home care, management, and teaching. Graduates are in demand and are hired into hospitals, skilled nursing facilities, rehabilitation centers, outpatient facilities, public schools, and some graduates start their own private practices.

## **The La Roche College-Duquesne University Affiliation**

In this program, students majoring in physical therapy complete a pre-professional program at La Roche College (designed to take a minimum of three years), and then transfer to Duquesne University to complete their professional phase in physical therapy (designed to take another three years). Students who successfully complete this program earn a Bachelor of Science in biology from La Roche College after year four, and a Doctor of Physical Therapy (D.P.T.) from Duquesne University at the end of year six.

## **Admission to the Physical Therapy Program**

### **Freshman admission**

All students admitted to La Roche College who intend to major in physical therapy will be initially designated as "Physical Therapy candidates". Physical Therapy candidates will be automatically considered for full admission to the physical therapy major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA of 3.0. The high school curriculum must have included seven units in Math and Science.

In addition, prospective students must demonstrate evidence of extracurricular activities during high school and knowledge of the Physical Therapy profession as evidenced by 100 hours of documented shadowing experiences with a licensed Physical Therapist in various clinical settings. Students complete the 100 credits of the pre-professional phase at La Roche College in three years, then students apply to Duquesne University for the professional phase. La Roche College is guaranteed an allotment of three students every year. In event that more than three students have entered the program, only the top three will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science faculty.

### **Transfer admission**

Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in physical therapy. Each student will be evaluated individually by the Coordinator of Health Science Programs.

### **Admission to Duquesne University**

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche physical therapy major must submit a Duquesne University Application for Undergraduate Admissions by December 1st of the year prior to anticipated transfer to Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Academic requirements for admission to Duquesne University for the professional phase of the physical therapy program include:

- successful completion of all pre-professional course work with a 3.0 cumulative QPA at La Roche College, and a "C" or better in all courses
- recommendation by the La Roche Pre-professional Health Committee
- documentation of current C.P.R. Certification (including adult, infant, and child CPR)
- documentation of a minimum of 100 hours of volunteer, paid, or shadowing experience in physical therapy at two separate clinical sites
- completion of a physical examination and other health requirements

## **Curriculum**

The pre-professional phase at La Roche College consists of 97 credits to be completed over a three-year period, in the coursework detailed below.

**To complete the Pre-Professional Phase at La Roche College the following coursework is required:**

- 66 credits of Physical Therapy Major Requirements (includes 1 credit "Introduction to Physical Therapy" course taken as a PCHE course)
- 31 credits of CORE Curriculum courses

## Major Requirements: 66 credits

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
Genetics	BIOL3013
Genetics-Lab	BIOL3014
Cell Biology	BIOL3026
Biochemistry I	BIOL3036
Biochemistry-Lab	BIOL3037
Biochemistry II	BIOL3038
Seminar in Biology	BIOL4059
General Chemistry I	CHEM1001
General Chemistry II	CHEM1002
General Chemistry I-Lab	CHEM1003
General Chemistry II-Lab	CHEM1004
Organic Chemistry I	CHEM2015
Organic Chemistry I-Lab	CHEM2015L
Organic Chemistry II	CHEM2016
Organic Chemistry II-Lab	CHEM2016L
Analytic Geometry and Calculus I	MATH1032
Analytic Geometry and Calculus II	MATH1033
Probability and Statistics	MATH1040
Biomedical Ethics	PHIL3027
Physics I	PHYS1032
Physics I-Lab	PHYS1032L
Physics II	PHYS1033
Physics II-Lab	PHYS1033L
Introduction to Psychology	PSYC1021

## Physician Assistant Studies

### The Physician Assistant Profession

Physician assistants are health professionals licensed who practice medicine in collaboration with physicians. Physician assistants are qualified by graduation from an accredited physician assistant educational program and certification by the National Commission on Certification of Physician Assistants. Within the physician/physician assistant relationship, physician assistants exercise autonomy in medical decision-making and provide a broad range of diagnostic and therapeutic services. The clinical role of physician assistants includes primary and specialty care in both medical and surgical practice settings. Physician assistant practice is centered on patient care but may also include educational, research and administrative activities.

### Employment and Career Opportunities

Physician assistants are employed by hospitals, ambulatory care clinics, managed care organizations, the military and many other settings.

Career options for master-degreed physician assistants include opportunities in clinical roles in primary care and clinical subspecialties, teaching in physician assistant educational programs, administrative roles in healthcare delivery systems, and research.

### The La Roche College-Duquesne University Affiliation

In this program, students majoring in physician assistant complete a pre-professional program at La Roche College (designed to take a minimum of two years), and then transfer to Duquesne University to complete their professional phase in physician assistant (designed to take another three years). Students who successfully complete this program earn a Bachelor of Science in Health Sciences after successful completion of year four, and a Master of Physician Assistant Studies degree upon completion of the program; both degrees are awarded from Duquesne University.

### Accreditation and Certification

The Duquesne University program in physician assistant is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP). Graduates of this program are eligible to sit for the Physician Assistant National Certifying Examination, administered by the National Commission on Certification of Physician Assistants.

### Admission to the Physician Assistant Studies Program

Freshman admission: All students admitted to La Roche College who intend to major in Physician Assistant Studies will be initially designated as "Physician Assistant Studies candidates". Physician Assistant Studies candidates will be automatically considered for full admission to the Physician Assistant Studies major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA of 3.0. The high school curriculum must have included at least seven units in Math and Science.

In addition, prospective students must demonstrate evidence of extracurricular activities during high school and knowledge of the Physician Assistant profession as evidenced by documented shadowing experiences with a Physician Assistant in various clinical settings. Students complete 63 credits in the pre-professional phase at La Roche College in two years, then apply to Duquesne University for the professional phase. La Roche

College is guaranteed an allotment of two students every year. In the event that more than two students have entered the program, only the top two will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science faculty.

### **Transfer Admission**

Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in physician assistant studies. Each student will be evaluated individually by the Coordinator of Health Science Programs.

### **Admission to Duquesne University**

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche physician assistant studies major must submit a Duquesne University Application for Undergraduate Admissions by December 1st for consideration for the following fall semester at Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Academic requirements for admission to Duquesne University for the professional phase of the physician assistant program include:

- successful completion of all pre-professional course work with a 3.0 cumulative QPA at La Roche College, and a "C" or better in all courses
- recommendation by the La Roche Pre-professional Health Committee
- documentation of current C.P.R. Certification (including adult, infant, and child CPR)
- completion of a physical examination and other health requirements.

To complete the Pre-Professional phase at La Roche College the following coursework is required:

- 30 credits of Science and Math
- 33 credits of additional courses to fulfill most of the Duquesne University core curriculum. This will also include a Theology, Creative Arts, Global Diversity and Social Justice course selected by the student (see the program guide for courses that will fill this requirement).

### **Additional Courses: 33 credits**

College Writing I	ENGL1011
College Writing I-Lab	ENGL1011L
College Writing II	ENGL1012
Introduction to Philosophy	PHIL1021
Biomedical Ethics	PHIL3027
Introduction to Psychology	PSYC1021
Modern Public Speaking	SPCH1001

### **Science and Math Courses: 30 credits**

General Biology I	BIOL1003
General Biology II	BIOL1004
General Biology I-Lab	BIOL1005
General Biology II-Lab	BIOL1006
Microbiology for Health Sciences	BIOL1015
Microbiology for Health Sciences-Lab	BIOL1015L
Principles of Chemistry I	CHEM1007
Principles of Chemistry I-Lab	CHEM1008
Principles of Chemistry II	CHEM1017
Principles of Chemistry II-Lab	CHEM1018
Probability and Statistics	MATH1040
Physics for Health Sciences	PHYS1010
Physics for Health Science-Lab	PHYS1010L
Introduction to Psychology	PSYC1021
Introduction to Computer Science: Bits, Bytes and Beyond.	SLSC1005

### **Speech-Language Pathology**

#### **The Speech-Language Pathology Profession**

Speech and language disorders affect the way people talk and understand. These disorders may range from simple sound substitutions to not being able to use speech and language at all. Speech-language pathologists are specialists in human communication, its development, and its disorders. They are professionally educated to evaluate and treat persons with communication problems.

Speech-language pathologists provide many specialized professional services which include:

- helping people with articulation disorders learn proper production of speech sound;
- assisting people who stutter to increase the amount of fluent speech and to cope with this disorder;
- assisting people with aphasia to re-learn language and speech skills and sentence order to compensate for lost language and speech skills;
- counseling people with speech and language disorders and their families to understand their disorder to achieve normal communication in education, social and vocational settings; and
- helping people understand the types and severity of communication disorders.

### **Employment and Career Opportunities**

Speech-language pathologists are employed by public and private schools, hospitals, rehabilitation centers, nursing care facilities, community clinics, colleges and universities, private offices, state and local health departments, state and federal governmental agencies.

Career growth options are in specialty practice areas in gerontology and pediatrics, university instruction, program administration, and consulting.

### **The La Roche College-Duquesne University Affiliation**

In this program, students majoring in speech-language pathology complete a pre-professional program at La Roche College (designed to take a minimum of four semesters), and then transfer to Duquesne University to complete their professional phase in speech-language pathology (designed to take another three half years). Students who successfully complete this program earn a Bachelor of Science in Health Sciences after successful completion of year four, and a Master of Speech-Language Pathology degree upon completion of the program; both degrees are awarded from Duquesne University.

Graduates of this program are eligible to sit for the certification examination leading to a Certificate of Clinical Competence (CCC) from the American Speech-Language-Hearing Association. In many states a license is also required. Specialized teacher certification may be required to work in public schools.

### **Admission to the Speech-Language Pathology Program**

#### **Freshman Admission:**

All students admitted to La Roche College who intend to major in Speech-Language Pathology will be initially designated as "Speech-Language Pathology candidates". Speech-Language Pathology candidates will be automatically considered for full admission to the Speech-Language Pathology major upon completion of the second semester of courses at La Roche College.

Prospective students to the program must have earned a minimum SAT score (Verbal and Math) of 1100, or a minimum ACT score of 24. Prospective students must have earned a minimum high school GPA of 3.0. The high school curriculum must have included at least:

- 4 Units of English
- 1 Unit in Social Studies or Foreign Language
- 7 Units in Math and Science
- 4 Electives

In addition, prospective students must demonstrate evidence of extracurricular activities during high school. The pre-professional phase is completed at La Roche College in two years. The completion of the La Roche College phase requires taking a minimum of two courses at Duquesne University. Students are expected to provide their own transportation. Students then apply to Duquesne University for the professional phase. La Roche College is guaranteed an allotment of three students every year. In event that more than three students have entered the program, only the top three will be allowed admission to Duquesne University. These students must have earned a minimum GPA of 3.0 overall, and a minimum GPA of 3.0 in Science/Math courses, with no course grade below a "C". Students must also be recommended by the pre-professional committee consisting of La Roche College Science faculty.

#### **Transfer Admission:**

Students with prior college credits who are admitted as transfer students to La Roche College may express their intent to major in speech-language pathology. Each student will be evaluated individually by the Coordinator of Health Science Programs.

#### **Admission to Duquesne University**

Through the Chairperson of the La Roche Pre-professional Health Committee, a La Roche speech-language pathology major must submit a Duquesne University Application for Undergraduate Admissions by December 1st for consideration for the following fall semester at Duquesne, along with additional required documentation (which the student will be informed of during a health sciences orientation at La Roche College).

Academic requirements for admission to Duquesne University for the professional phase of the speech-language pathology program include:

- successful completion of all pre-professional course work with a 3.0 cumulative QPA at La Roche College, and a "C" or better in all courses
- recommendation by the La Roche Pre-professional Health Committee
- documentation of current C.P.R. Certification (including adult, infant, and child CPR)
- completion of a physical examination and other health requirements

#### **Curriculum**

##### **To complete the Pre-Professional phase the following coursework is required:**

- 28 credits of Science and Math courses
- 6 credits of Speech Language Pathology courses to be taken at Duquesne University
- 30 additional credits designed to fulfill most of Duquesne Core Curriculum. This will include a Theology and Global Diversity course to be selected by the student (see program guide for courses that will fill this requirement).

#### **Additional Courses: 30 credits**

Human Communication  
Communication Between Cultures  
College Writing I  
College Writing I-Lab  
College Writing II  
Introduction to Philosophy  
Biomedical Ethics  
Introduction to Psychology

CMET1001  
CMET2003  
ENGL1011  
ENGL1011L  
ENGL1012  
PHIL1021  
PHIL3027  
PSYC1021

**Science and Math Requirements: 28 credits**

Life Science-Lab	BIOL1000
Life Science	BIOL1001
Human Anatomy & Physiology I	BIOL1023
Human Anatomy & Physiology I-Lab	BIOL1023L
College Algebra	MATH1010
Trigonometry	MATH1023
Analytic Geometry and Calculus I	MATH1032
Probability and Statistics	MATH1040
Physics for Health Sciences	PHYS1010
Physics for Health Science-Lab	PHYS1010L
Introduction to Psychology	PSYC1021
Child Development	PSYC2022
Introduction to Computer Science: Bits, Bytes and Beyond.	SLSC1005

**Master of Science in Health Science (Nurse Anesthesia)**

Today's nurse anesthetists need advanced theoretical knowledge and extensive clinical experience to meet the critical demands of their profession. La Roche College's graduate program in health sciences offers an integrated approach to nurse anesthesia education: a valuable blend of theoretical classroom learning and clinical practice and research that's geared to a complex and rapidly changing field.

Baccalaureate-prepared registered nurses pursuing a master's degree full-time combine theoretical course work at La Roche College with clinical-based education and practicum at Allegheny Valley Hospital School of Anesthesia, located at Allegheny General Hospital, a Level I Trauma Center.

Current Certified Registered Nurse Anesthetists (CRNA) can supplement their clinical expertise and earn advanced degrees with part-time, graduate-level study.

By developing a broad base of knowledge in the biophysical sciences, both non-CRNA and CRNA students can gain the expertise necessary for comprehensive anesthesia management of patients. You'll learn to develop management strategies for patients of various age groups with different co-existing disease processes by applying the theoretical concepts studied in the classroom. You'll also develop the research skills necessary to solve complex problems on the job, and to evaluate current anesthesia literature. Development of leadership skills essential for managing patients within a multidisciplinary framework is an essential component of our program.

La Roche College has been a leader in nurse anesthesia education for over 25 years. After a decade of offering a bachelor's degree in the field, the College moved its curriculum to the graduate level in 1987, following a mandate by the American Association of Nurse Anesthetists (AANA) that anesthesia education be offered at the graduate level by the late 1990s.

The strong reputations of La Roche College's health sciences program and Pittsburgh's health care arena have attracted students from across the country and around the world to pursue advanced specialty education in nurse anesthesia. In turn, health sciences graduates are highly sought for positions nationwide.

One of the program's greatest strengths is its faculty. Dedicated, full-time professors hold doctorates and are recognized in their areas of expertise. Experienced adjunct faculty are highly respected professionals from La Roche College's affiliated school of anesthesia and Pittsburgh's health care community. Together, they provide a unique blend of theory and practical application leading to a challenging education that prepares qualified nurses to meet the changing demands of the anesthesia profession.

### **Anesthesia School Accreditation Status**

The Allegheny Valley Hospital/La Roche College School of Nurse Anesthesia is accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA), 222 S. Prospect Avenue, Park Ridge, IL 60068. Phone: 847-655-1160. The next scheduled review by COA is May 2015.

Class of 2012: Attrition rate: 23.5% (4/17)

Employment rate: 100%

NCE Pass rate for 1st time takers: 85%

[American Association of Nurse Anesthetists Website](#)

**Entrance Requirements:**

To be considered for admission into Allegheny Valley Hospital School of Anesthesia, the applicant must fulfill the following prerequisites:

1. An appropriate baccalaureate degree (B.S.N., B.S., B.A.)
2. Current licensure as a registered nurse
3. Grade point average of 3.0 or higher on a 4.0 scale at the undergraduate level



4. Acceptable scores on the Graduate Record Exam or Miller Analogy Test
  5. Minimum of one year of nursing experience in an adult critical care setting
  6. Current BCLS, ACLS and PALS certification
  7. Grade point average of 3.0 or higher on a 4.0 scale at the undergraduate level in the following areas:
    - a. Chemistry
    - b. Human Anatomy & Physiology
    - c. Pharmacology
    - d. Physics*If any of these courses were taken more than ten years ago, applicants may be required to verify competency in these areas.*
  8. Three approved references/recommendations from:
    - a. Immediate Nurse Manager in current position
    - b. Individual familiar with applicant's competency in present position
    - c. Nursing Supervisor
- To begin the admissions process [CLICK HERE](#) (Graduate Admissions Letter in PDF Format)

## Graduate Health Science Curriculum

The graduate program in nurse anesthesia consists of two parts: a La Roche College portion, and a clinical-based portion taught at Allegheny Valley Hospital School of Anesthesia. A student seeking to become a CRNA must complete both parts of the curriculum successfully in order to be granted the Master of Science in Health Science from La Roche College. Students who already possess the CRNA credential (but wish to earn the Master's degree) are required to complete only the La Roche College portion of the curriculum.

The graduate program is a full-time program. Incoming students officially begin in the fall semester, and take five consecutive semesters of courses at La Roche College. For first year students, La Roche courses are taught on Thursdays and Fridays, and professional preparation in the hospital is scheduled on Mondays, Tuesdays, and Wednesdays. Summer session classes at the end of year one are offered during the late afternoon and early evening. For second year students, the La Roche courses are taught on Mondays, with clinical work scheduled for the remainder of the week. The remaining time is spent entirely at the program's affiliated clinical sites: Allegheny General Hospital, The Western Pennsylvania Hospital, Forbes Regional Hospital, Alle-Kiski Medical Center, Butler Memorial Hospital, Passavant Hospital, Sewickley Valley Hospital, St. Clair Memorial Hospital and The Beaver Medical Center.

The La Roche College portion of the graduate program consists of three components:

- The first component provides students with a broad base of knowledge in the biophysical sciences, through which they can develop expertise in the anesthesia management of patients in the perioperative, resuscitative and ventilatory support phases of care. This part of the curriculum includes courses in anatomy, physiology, pathophysiology; organic, medicinal and biological chemistry; pharmacology; and medical physics.
- The second component is designed to introduce students to the methodology of research including the nature of scientific thinking, selection of research techniques, analysis and interpretation of data and formulations of conclusions. As part of this component, students are required to design and present a project in anesthesia education or anesthesia research. The goal of the research component is to establish the critical thinking skills needed to evaluate medical research and to provide an understanding of research methodology. Students also have the option of writing and defending a Master's thesis.
- The third component consists of advanced theory courses in anesthesia. Students are presented with principles and techniques involved in anesthesia management of patients of varying ages and health conditions.

### Curriculum Goals and Objectives:

- to prepare practitioners in the area of anesthesia
- to develop nurse anesthetists as consumers of and contributors to anesthesia research
- to prepare nurse anesthetists to serve as leaders, educators and role models in anesthesia and health care delivery systems
- to prepare specialists who are able to facilitate managerial improvement in the delivery of anesthesia service
- to provide nurse anesthesia students with a sound foundation for entry into doctoral study.

Upon completion of the master's level nurse anesthesia program, the students will be able to:

- demonstrate in-depth knowledge of the fundamental sciences to ensure greater competence in anesthesia practice, as well as teaching in a nurse anesthesia program
- engage in collateral reading in anatomy, physiology, chemistry, pharmacology, and clinical subjects related to the field of anesthesia
- conduct research and evaluate current literature in order to initiate and provide improved anesthesia and acute patient care
- assume a leadership role in collaboration with health care team members and serve as a role model for future health care providers
- function as a resource person for nursing staff/other learners
- apply principles of research to the clinical anesthesia setting
- design, implement, evaluate and revise an anesthetic care plan for assigned patients
- utilize appropriate scientific principles related to asepsis, anesthesia and respiratory techniques
- apply knowledge of nursing theories and models in advanced nursing and specialty areas of nurse anesthesia practice.

## Course Sequence

The La Roche College requirements include 49 credits of courses, taken in the sequence shown below.

Note: courses in the summer of Year One are offered in six-week blocks. HSCG5012 is scheduled in session 6A (the first block) and HSCG5010 follows in the second block (session 6B).

In addition, all students are required to register for two additional 6-credit courses which are taught at Allegheny Valley Hospital School of Anesthesia: HSCG5030 (Anesthesia Didactics I) and HSCG6030 (Anesthesia Didactics II).

Students at Allegheny Valley Hospital School of Anesthesia take HSCG5030 (Didactics I) in Year One and HSCG6030 (Didactics II) in Year Two

The total credits for this graduate program, including HSCG5030 and 6030, is 49.

Note: students who already possess the CRNA credential are exempt from taking HSCG5030 and 6030. Your total credit requirement for the

Master of Science degree is 37.

**1. Fall Year One**

Professional Aspects of Anesthesia Practice	HSCG0001
Advanced Pharmacology I	HSCG5000
Organic & Medicinal Chemistry	HSCG5003
Advanced Anatomy, Physiology, & Pathophysiology I	HSCG5021
Anesthesia Didactics I	HSCG5030

**2. Spring Year One**

Advanced Pharmacology II	HSCG5001
Biochemistry	HSCG5004
Advanced Anatomy, Physiology, & Pathophysiology II	HSCG5022

**3. Summer Year One**

Research Methodology	HSCG5010
Medical Physics	HSCG5012

**4. Fall Year Two**

Research II: Evidence-Based Nursing Practice	HSCG6012
Anesthesia Didactics II	HSCG6030

**5. Spring Year Two**

Advanced Principles of Nurse Anesthesia	HSCG6055
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**Other Divisions**

**Programs of Study**

**Majors**

Interdisciplinary Studies (Self-Design)  
Undeclared

BA/BS  
Other

**Minors**

Sustainable Studies Minor

Other

## Course Descriptions

Detail

### **ACCT1001**

#### **ACCOUNTING CONCEPTS**

**Credits (Min/Max): 3/3**

This course introduces the student to financial and management accounting in a business setting. Course materials are specifically designed to provide the non-Business major with a generalist's understanding of accounting procedures and principles and how those procedures and principles affect organizational operations and management planning. Topics include accounts and financial statements, evaluating operations, inventory systems, receivables, and depreciation methods. For NON-Business Majors Only

### **ACCT2003**

#### **ACCOUNTING I**

**Credits (Min/Max): 3/3**

An introduction to accounting principles and bookkeeping methods, including the theory of debit and credit, financial statements and adjusting and closing entries. Topics also covered include: accounting for merchandising operations including inventory systems and cost flow assumption, internal control systems, bank reconciliations, and receivables.

### **ACCT2004**

#### **ACCOUNTING II**

**Credits (Min/Max): 3/3**

This second semester of accounting principles emphasizes the analysis and use of equity accounts and the interpretation of financial information. Topics covered include short-term liabilities, the statement of cash flows, partnerships, corporate transactions, and long-term assets.

PreRequisites: ACCT2003 - ACCOUNTING I

### **ACCT2013**

#### **MANAGERIAL ACCOUNTING**

**Credits (Min/Max): 3/3**

A study of a manager's use of financial reports and data in the controlling function. Analysis of financial statements, use of budgets and budgeting techniques for operations, and capital acquisitions will be treated. Costing methods will be explored.

PreRequisites: ACCT2003 - ACCOUNTING I

### **ACCT2025**

#### **ACCOUNTING WITH COMPUTERS**

**Credits (Min/Max): 3/3**

This course provides hands-on experience of the integration of computers into the accounting field. The student will work through a complete accounting cycle using a full-featured commercial accounting software package. Other topics include sales and receivables, inventory, plant assets and depreciation, payables, payroll, and job costing. Emphasis will be placed on the preparation of accounting information and its subsequent uses, as well as the instruction of advanced skills needed to use spreadsheet software to prepare schedules commonly found in an accounting environment.

PreRequisites: ACCT2004 - ACCOUNTING II

### **ACCT3001**

#### **TAXATION I**

**Credits (Min/Max): 3/3**

A study of the basic principles of federal taxation of individuals. Areas studied include types of returns, includable and excludable income, expense deductions, inventory methods, depreciation methods and accounting methods.

PreRequisites: ACCT2004 - ACCOUNTING II

### **ACCT3002**

#### **TAXATION II**

**Credits (Min/Max): 3/3**

An advanced course expanding on the principles of tax law learned in Taxation I to include taxation of corporations, estates and trusts, partnerships, limited partnerships and foreign operations of various entities. Tax planning and research methodology are emphasized as solutions to complex tax questions arising from topical discussions.

PreRequisites: ACCT2004 - ACCOUNTING II

### **ACCT3011**

#### **INTERMEDIATE ACCT. I**

**Credits (Min/Max): 3/3**

A comprehensive study of accounting theory and practice related to cash, revenue recognition, receivables, inventories and long-lived assets. Students examine the nature, composition, valuation and balance sheet classification of these items.

PreRequisites: ACCT2004 - ACCOUNTING II

**ACCT3012**  
**INTERMEDIATE ACCT. II**  
**Credits (Min/Max): 3/3**

The second semester of intermediate accounting deals with accounting theory and practice related to intangibles, bonds, partnerships, corporations and the statement of cash flows. Discussion and applied practice supplement the study of the nature, composition, valuation and balance sheet classification of these items.

PreRequisites: ACCT2004 - ACCOUNTING II

**ACCT3014**  
**COST ACCOUNTING**  
**Credits (Min/Max): 3/3**

A continuation of the study of cost accounting theory and practice through its application to such advanced level topics as budgeting, standard costing, direct costing, variable costing and absorption costing, cost/profit volume analysis and strategic planning programs.

PreRequisites: ACCT2013 - MANAGERIAL ACCOUNTING

**ACCT4001**  
**ADVANCED ACCOUNTING**  
**Credits (Min/Max): 3/3**

An examination of current generally accepted accounting principles as they relate to special areas including business combinations, governmental, not-for-profit organizations and foreign currency conversion. All topics are presented from the prospective of the CPA Exam.

PreRequisites: ACCT3012 - INTERMEDIATE ACCT. II

**ACCT4002**  
**AUDITING**  
**Credits (Min/Max): 3/3**

This course provides a thorough knowledge of auditing through the application of auditing principles and an understanding of auditing standards.

**ACCT4040**  
**SPECIAL TOPICS IN ACCOUNTING**  
**Credits (Min/Max): 3/3**

A customized study of selected topics in the field of accounting. Students will be guided by a department faculty member to acquaint them with current issues in the profession.

**ACCT4051**  
**ACCOUNTING-INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A field experience in an accounting position, supervised by field instructor as well as college faculty. The internship is designed to increase understanding of accounting and the accounting-related issues and perspectives as they relate to the business and social environment.

**ACCT4052**  
**ACCOUNTING-INTERNSHIP II**  
**Credits (Min/Max): 1/3**

A field experience in an accounting position, supervised by field instructor as well as college faculty. The internship is designed to increase understanding of accounting and the accounting-related issues and perspectives as they relate to the business and social environment.

**ACCT4057**  
**ACCOUNTING-INDEPENDENT STUDY**  
**Credits (Min/Max): 1/3**

The independent study is intended to give an opportunity to students with superior ability to pursue an area of study in accounting that is very specific in focus and/or not covered in existing offerings.

**ACCT5020**  
**ETHICS & PROFESSIONAL RESPONSIBILITIES IN ACCOUNTING**  
**Credits (Min/Max): 3/3**

This course addresses the accountant's ethical and professional responsibilities when dealing with clients, perspective clients, field work, fellow employees, and within society itself. The student will be presented with numerous situations or case studies where an individual's ethical standards are challenged. Also addressed in the course is how a business's work environment can affect the ethical decision making of its employees.

**ACCT5035**  
**MODERN ACCOUNTING INFORMATION SYSTEMS**  
**Credits (Min/Max): 3/3**

This course examines the risk and control issues specific to the use of information systems in an organization and how these issues affect presentations on the financial statements. Students will analyze and evaluate accounting information systems that support business processes as well as management control and decision-making. Students will learn to determine and document user requirements, communicate results, and support decision-making. Also, students will develop the ability to identify key issues, analyze information, and formulate appropriate and feasible recommendations in regard to accounting information systems.

**ACCT5040**  
**THE BUSINESS OF READING & WRITING**  
**Credits (Min/Max): 3/3**

This course introduces the student to writings from books and journals that will impact the manner in which students perceive their careers, supervisors, and subordinates. While many of the readings are authored by people from the business world, writings from other fields relevant to the course topics may be used.

**ACCT5050**  
**FRAUD EXAMINATION**  
**Credits (Min/Max): 3/3**

This course highlights controls that prevent fraud and abuse, explores the most common asset theft fraud schemes and teaches the skills needed to determine if inappropriate actions have occurred. It explores the prevailing theories of criminal behavior related to white collar crime, as well as the basics of the regulatory, criminal justice and civil justice systems, relevant federal and state statutes and regulations related to fraud. It also covers fraud prevention and investigation tools related to asset misappropriation.

**ACCT6020**  
**ADVANCED FORENSIC ACCOUNTING**  
**Credits (Min/Max): 3/3**

This course focuses on detailed financial analysis of various corporate reports to determine if unusual trends appear. Bank fraud, money laundering and bankruptcy proceedings will be studied. Students will study the provisions of the Sarbanes-Oxley Act and distinguish the procedures of fraud investigation from the regular auditing process. This course would be intended to provide students with extended practical guidance and enhance an auditor's abilities to recognize, prevent, and detect financial frauds in organizations. Through case studies, this course will increase students' knowledge about fraud and help students develop the skills to conduct fraud investigations.

**ACCT6050**  
**WEALTH MANAGEMENT**  
**Credits (Min/Max): 3/3**

Wealth management is an investment advisory discipline that incorporates financial planning, investment portfolio management and a number of aggregated financial services. Wealthy individuals, small business owners, and families who desire the assistance of a credentialed financial advisory specialist call upon wealth managers to coordinate retail banking, estate planning, legal resources, tax professionals and investment management. This course introduces the student these areas of asset management by identifying various strategies and practices that best fit the aforementioned groups who need the skills of a professional financial manager.

**ACCT6060**  
**ACCOUNTING FOR NOT-FOR-PROFIT ENTITIES**  
**Credits (Min/Max): 3/3**

This course will cover aspects of accounting that are unique to governmental and not-for-profit organizations. Financial reporting for state and local governments will be covered along with accounting for non-profit entities conducting business-type activities. In addition, regulatory, taxation and performance issues will be discussed. Reference is made to pronouncements of the AICPA, FASB, GASB and other authoritative sources.

**ACCT6080**  
**CONTEMPORARY ISSUES IN TAXATION**  
**Credits (Min/Max): 3/3**

This course will enlighten the student about current tax topics being discussed in Congress or in the court system. An additional focus will be tax planning and compliance.

**ACCT6085**  
**INTERNATIONAL ACCOUNTING**  
**Credits (Min/Max): 3/3**

This course examines major international dimensions of financial accounting. Discussion will ensue in regard to national and cultural influences on accounting and on the accounting profession. This course investigates financial regulation and varying financial reporting standards in selected foreign countries. It also introduces students to managerial accounting issues raised by international businesses. Analysis and use of the International Accounting Standards are the focus. This course will enable students to acquire skills and perspectives for dealing with international accounting and business issues.

**ACCT6099**  
**APPLIED RESEARCH**  
**Credits (Min/Max): 3/3**

This course requires the masters students to apply their knowledge to a field work assignment assisting a business or businesses in solving accounting problems that the company is experiencing. Students will identify the organizations for their project and have them approved by the instructor. Their efforts will culminate in a written report and class presentation outlining the issues identified and the steps taken to solve each problem.

**ADMG1001**  
**INTRO TO ADMINISTRATION & MGMT**  
**Credits (Min/Max): 3/3**

An introduction to the field of administration and management, focusing specifically on the area of business administration. The functional areas of business such as marketing, finance, personnel and production will be reviewed together with subjects such as economics, accounting and computers. This course is for non-business majors only.

**ADMG1005**  
**MACROECONOMICS**  
**Credits (Min/Max): 3/3**

An introductory economics course focusing on the field of macroeconomics, including government spending, money, inflation, unemployment and taxes. Also included are brief sections on microeconomic and economic systems.

**ADMG1006**  
**MICROECONOMICS**  
**Credits (Min/Max): 3/3**

An introductory economics course focusing on the field of microeconomics. Price, cost and production theory are covered in relation to competitive, monopolistic and oligopolistic industry structure. The field of labor economics is treated in some detail. Some advanced macroeconomics topics are also covered.

**ADMG1018**  
**FUNDAMENTALS OF MANAGEMENT**  
**Credits (Min/Max): 3/3**

An introduction to the three major schools of management thought: the classical, the behavioral and the management science schools. The major emphasis is on the fundamentals of each school of thought and also on the integrative approach to management, drawing on the systems and contingency approaches.

**ADMG2007**  
**ADVERTISING & P.R.(MRKT2007)**  
**Credits (Min/Max): 3/3**

A comprehensive study of advertising, detailing its relationship to marketing practice. Topics such as advertising preparation, media evaluation, market research, pricing and retailing problems are included. The role of public relations in an organizational communication program is also explained. Cross-listed with MRKT2007

**ADMG2009**  
**BUSINESS LAW I**  
**Credits (Min/Max): 3/3**

This course is an introduction to law and legal procedure. Contracts, their nature and requisites formation, operations, interpretation, discharge and remedies are discussed.

**ADMG2010**  
**BUSINESS LAW II**  
**Credits (Min/Max): 3/3**

Study of sales: Article 2 of the Uniform Commercial Code, transfer of title, warranties, rights and remedies of buyer and seller; Commercial paper; Article 3 of the Uniform Commercial Code and Article 4 of the Uniform Commercial Code: Bank Deposits.

PreRequisites: ADMG2009 - BUSINESS LAW I

**ADMG2018**  
**ORGANIZATIONAL BEHAVIOR**  
**Credits (Min/Max): 3/3**

This course provides an in-depth examination of organizational behavior from a macro-perspective. This course includes a review of the research on organizational structure, technology and the environment, as well as their relationship and the implications for effective organizational design. Also included in the course are discussions of organizational goals and effectiveness, organizational culture, organizational conflict and politics, and alternative organizational structure in the U.S. and abroad.



PreRequisites: ADMG1018 - FUNDAMENTALS OF MANAGEMENT

**ADMG2021**  
**MARKETING MANAGEMENT(MRKT2021)**  
**Credits (Min/Max): 3/3**

A basic study of marketing systems in the American economy. This course includes, identifying the activities involved in the flow of goods among manufacturers, brokers, wholesalers, retailers and consumers. The nature of demand, buyer behavior, costs and pricing, sales strategies, promotions and techniques are presented. Cross-listed with MRKT2021

**ADMG2025**  
**HUMAN RESOURCES ADMINISTRATION**  
**Credits (Min/Max): 3/3**

A study of the basics of human resources management including planning, recruitment selection, motivation and performance appraisal. Also treated are salary benefits systems and an introduction to EEOC and OSHA law.

**ADMG2037**  
**FINANCIAL SURVIVAL & ECONOMIC WELL BEING**  
**Credits (Min/Max): 3/3**

This course is open to all students regardless of major. It will provide participants with the opportunity to study the concepts and principles of sound personal financial planning and management. It will deal with the basic questions of career choices, social financial responsibility, credit usage, saving options, and investments strategies. Covered will be the issues of taxes, insurance, and budgets, including consumption considerations and retirement planning.

**ADMG2040**  
**INNOVATION & ENTREPRENEURSHIP**  
**Credits (Min/Max): 3/3**

This course will focus on the entrepreneurial process-from ideation to the implementation of a new business venture. Will concentrate on the behavioral aspects of entrepreneurs, the identification and assessment of opportunities and the marshalling of resources and skills necessary to implement the identified opportunity.

**ADMG3003**  
**INTN'L POLITICAL ECONOMY (INST3003)**  
**Credits (Min/Max): 3/3**

An overview of the major theories of international political economy. Topics include the increasingly important role of global factors in the American economy, the international financial environment, international trade relations and economic development. Cross-listed with INST3003

PreRequisites: ADMG1005 - MACROECONOMICS

**ADMG3008**  
**BUSINESS & SOCIETY**  
**Credits (Min/Max): 3/3**

This policy-oriented course provides discussion and analysis of current issues and problems of an environmental nature confronting private corporate enterprise. Major areas analyzed are comparative economic systems, the political process, corporate social responsibility, the legal environment, human value systems and the person in management.

**ADMG3010**  
**BUSINESS ORGANIZATION & REGULATION**  
**Credits (Min/Max): 3/3**

This course studies the concepts of Unincorporated Business Association and Corporations. It also provides an overview of the issues relating to the Regulation of Business.

PreRequisites: ADMG2009 - BUSINESS LAW I

**ADMG3015**  
**PROJECT MANAGEMENT**  
**Credits (Min/Max): 3/3**

This course presents a comprehensive introduction to Project Management. The task of managing projects and the challenges facing project workers are examined in the context of new realities, requirements, opportunities and problems developing in the business environment. In addition to the traditional concerns of project management involving time, budget and specifications management, quality management, contract/procurement management and communication management as they affect the management of projects in the modern work place.

**ADMG3024**  
**PROFESSIONAL PRESENTATION**  
**Credits (Min/Max): 3/3**

This course is designed to provide students in the professional areas with training in preparing and giving professional presentations. Students will develop skills in audience/client assessment, research, presentation design and development, using presentation tools and presentation evaluation.

**ADMG4019**  
**SPORTS ADMINISTRATION & MGMT (MRKT4019)**  
**Credits (Min/Max): 3/3**

This course will provide a comprehensive, current and concise introduction to sports management and administration principles and practices. Functional overviews of industry skills are presented and exposure to organizational theory, law and sports governance, facilities and venues, sports marketing, ethical applications, broadcasting, sales, event management, agency, advertising, sponsorship, international sport, collegiate and amateur sport will be addressed in detail. Cross-listed with MRKT4019

**ADMG4020**  
**OPERATIONS MANAGEMENT**  
**Credits (Min/Max): 3/3**

Study is given to the basic operations, functions and procedures. An analytical approach is utilized with emphasis on problem solving. Modern management science techniques such as linear programming, PERT and inventory control models are presented.

**ADMG4036**  
**ORGANIZATION THEORY**  
**Credits (Min/Max): 3/3**

This course is intended to provide the graduating administration and management student with a forum for exploring and comparing different theoretical approaches to the organizational aspects of modern institutions, both public and private. The participant would have the opportunity to acquire an understanding of the different ways in which organization theory is approached by scholars in different disciplines, i.e., sociologists, political scientists and public and business administrators.

**ADMG4040**  
**BUSINESS ETHICS: TOPICS & ISSUES A&M**  
**Credits (Min/Max): 3/3**

This course will provide an in-depth examination of selected topics and issues in the field of administration and management. Topics to be examined on a rotating basis to include: ethics in business, history of business, government regulation and business, theory and process of decision-making and current issues in human resource management.

**ADMG4051**  
**ADMINIST & MGMT-INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A field experience in an administrative or managerial position, supervised by a field instructor as well as college faculty.

**ADMG4052**  
**ADMINIS & MGMT-INTERNSHIP II**  
**Credits (Min/Max): 1/3**

A field experience in an administrative or managerial position, supervised by a field instructor as well as college faculty.

**ADMG4055**  
**SEMINAR-BUSINESS POLICY**  
**Credits (Min/Max): 3/3**

An intensive culmination and synthesization of the study of administration and management consisting of readings, case study and class discussion. The primary emphasis is on the development of the skills of strategic analysis from the viewpoint of the general manager.

**ADMG4057**  
**ADMINISTRATIVE & MANAGEMENT- INDEPENDENT STUDY**  
**Credits (Min/Max): 1/3**

Independent study is intended to allow a student to pursue studies in advanced or special topics.

**ARTH1017**  
**HISTORY OF ART I: PREHISTORIC TO GOTHIC**  
**Credits (Min/Max): 3/3**

A survey of world art from prehistoric to late Gothic eras as well as an examination of the interaction of the social, political and economic forces that effected the production and appearance of such arts as painting, sculpture, architecture and the minor arts. Lectures, slides, discussion and field trips are utilized.

**ARTH1018**  
**HISTORY OF ART II: RENAISSANCE TO MODERN**  
**Credits (Min/Max): 3/3**

This course will provide a survey of world art from early Renaissance to the present day. Emphasis is on cause and effect in the various historical and technological developments of art. Lecture, discussion, slides, film strips and field trips are part of the course.

**ARTH2002**  
**HISTORY OF GRAPHIC DESIGN**  
**Credits (Min/Max): 3/3**

A survey of the history of graphic design from the invention of writing to the twentieth century. Emphasis will be given to the evolution of graphic communication and will include the origins of printing and typography. The impact of the industry on visual communication and the development of modern graphic design will also be presented.

**ARTH2045**  
**CONTEMPORARY DESIGN**  
**Credits (Min/Max): 3/3**

"Under Development"

**ARTH3016**  
**HISTORY OF FILM(GCDN3016)**  
**Credits (Min/Max): 3/3**

The course attempts to make the student more aware of the medium as well as its place in the development of our culture. While the approach is historical, emphasis is placed upon development of the student's visual literacy. Additionally, important topics such as censorship and film propaganda are discussed. Cross-listed with GCDN3016

**ARTH3020**  
**HISTORY OF CONTEMPORARY ART**  
**Credits (Min/Max): 3/3**

A survey of modern art from the 19th century to the present day. This course explores the revolutionary forms, methods and media invented by contemporary artists to continually defy our expectations of what art should be.

**BIOL1000**  
**LIFE SCIENCE-LAB**  
**Credits (Min/Max): 1/1**

The laboratory course will conduct experiments that demonstrate the underlying principles associated with topics presented in BIOL1001, Life Science. This course is designed for students majoring in Radiologic Technology, or consent of instructor and is not open to science majors.

**BIOL1001**  
**LIFE SCIENCE(SLSC1011)**  
**Credits (Min/Max): 3/3**

An introductory course directed toward the development of an answer to the question: What is life? The course explores various life processes and the human person's position in the total scheme. Emphasis is placed on current scientific discoveries. This course is not open to science majors. Cross-listed with SLSC1011

**BIOL1002**  
**INTRO TO THE HUMAN BODY:SYSTEMS THAT MOVE YOU**  
**Credits (Min/Max): 3/3**

This course will explore the basic concepts of human anatomy and physiology of the body systems responsible for movement. Specifically, the structure, function, interrelationships, and control of the skeletal muscle, and nervous systems will be studied. This course is designed for students majoring in dance.

**BIOL1003**  
**GENERAL BIOLOGY I**  
**Credits (Min/Max): 3/3**

A presentation of a comprehensive survey of the major area within modern biology with emphasis placed on unsolved problems and the nature of scientific evidence. The course explores the properties of living matter on the molecular, cellular and organismic level. Open to all science majors and non-science majors with a strong interest in biology or a professional need.

**BIOL1004**  
**GENERAL BIOLOGY II**  
**Credits (Min/Max): 3/3**

A presentation of a comprehensive survey of the major area within modern biology with emphasis placed on unsolved problems and the nature of scientific evidence. The course explores the properties of living matter on the molecular, cellular and organismic level. Open to all science majors and non-science majors with a strong interest in biology or a professional need.

PreRequisites: BIOL1003 - GENERAL BIOLOGY I

**BIOL1005**  
**GENERAL BIOLOGY I-LAB**

**Credits (Min/Max): 1/1**

Selected experiments chosen to emphasize principles presented in the General Biology lecture courses.

**BIOL1006**  
**GENERAL BIOLOGY II-LAB**

**Credits (Min/Max): 1/1**

Selected experiments chosen to emphasize principles presented in the General Biology lecture courses.

**BIOL1015**  
**MICROBIOLOGY FOR HEALTH SCIENCES**

**Credits (Min/Max): 4/4**

The primary effort of this course will be to provide the student with practical and clinically relevant information about microbes through lectures and laboratory exercises. Students will be introduced to basic facts about the structure and life processes of microbes. Major emphasis will be placed on relationships between microbes and humans, causes and diagnosis of microbial diseases, common sources of infections, disease transmission, and the prevention and treatment of infectious diseases. The tools and techniques for handling and identifying microorganisms will be introduced in the laboratory exercises.

**BIOL1015L**  
**MICROBIOLOGY FOR HEALTH SCIENCES -LAB**

**Credits (Min/Max): 0/0**

Lab for BIOL1015: Microbiology for Health Sciences

**BIOL1020**  
**MEDICAL TERMINOLOGY**

**Credits (Min/Max): 3/3**

This course will introduce the language of medicine through the analysis of medical terminology structure and the understanding of the definition, spelling and pronunciation of medical terms.

**BIOL1023**  
**HUMAN ANATOMY & PHYSIOLOGY I**

**Credits (Min/Max): 4/4**

A basic course concerned with the structural and physiological processes of the human body. Interdependence of structure and function is stressed to promote better understanding of the entire body environment.

**BIOL1023L**  
**HUMAN ANATOMY & PHYSIOLOGY I-LAB**

**Credits (Min/Max): 0/0**

Laboratory for BIOL1023: Anatomy & Physiology I

**BIOL1024**  
**HUMAN ANATOMY & PHYSIOLOGY II**

**Credits (Min/Max): 4/4**

The second of two basic courses concerned with the structural and physiological processes of the human body. Interdependence of structure and function is stressed to promote better understanding of the entire body environment. Lecture and laboratory courses.

PreRequisites: BIOL1023 - ANATOMY & PHYSIOLOGY I

**BIOL1024L**  
**HUMAN ANATOMY & PHYSIOLOGY II- LAB**

**Credits (Min/Max): 0/0**

Laboratory for BIOL1024: Anatomy and Physiology II.

**BIOL1030**  
**BIOLOGY OF AGING**

**Credits (Min/Max): 3/3**

Focusing on adulthood and later life, this course explores the physiological changes, which occur with human aging, adaptation to those changes and the impact of biological changes on psychosocial functioning.

**BIOL2021**  
**COMPARATIVE VERTEBRATE A&P I**  
**Credits (Min/Max): 4/4**

A comparative study of the structural and functional characteristics of vertebrates tracing the evolution of animals from primitive chordates to mammals. Emphasis is placed on the physical and chemical operations of vertebrates and how these operations contribute to homeostasis. Structural/functional relationships are discussed. Lecture and laboratory courses.

PreRequisites: BIOL1003 - GENERAL BIOLOGY I

**BIOL2021L**  
**COMPARATIVE ANATOMY I-LAB**  
**Credits (Min/Max): 0/0**

Laboratory for BIOL2021: Comparative Vertebrate Anatomy and Physiology I

**BIOL2022**  
**COMPARATIVE VERTEBRATE A&P II**  
**Credits (Min/Max): 4/4**

A comparative study of the structural and functional characteristics of vertebrates tracing the evolution of animals from primitive chordates to mammals. Emphasis is placed on the physical and chemical operations of vertebrates and how these operations contribute to homeostasis. Structural/functional relationships are discussed. Lecture and laboratory courses.

**BIOL2022L**  
**COMPARATIVE VERTEBRATE A&P II: LAB**  
**Credits (Min/Max): 0/0**

Laboratory for BIOL2022: Comparative Vertebrate Anatomy and Physiology II

**BIOL2025**  
**MICROBIOLOGY**  
**Credits (Min/Max): 4/4**

An examination of the morphology and physiology of microorganisms with emphasis on their relationship to their environment. Topics include food, water, soil, industrial, and medical microbiology, microbial genetics, and microbial diversity. The laboratory work introduces the student to both the organisms and the techniques necessary to study them. Lecture and laboratory course.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

**BIOL2025L**  
**MICROBIOLOGY-LAB**  
**Credits (Min/Max): 0/0**

Laboratory for BIOL2025 Microbiology

**BIOL3013**  
**GENETICS**  
**Credits (Min/Max): 3/3**

A study of the basic principles of heredity including Mendelian, molecular and population genetics. Topics will include the cellular functions that give rise to inherited traits, the genetic basis for evolution, the role of genetics in biotechnology, and the statistical basis for predicting the probability of inheriting certain traits.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

**BIOL3014**  
**GENETICS-LAB**  
**Credits (Min/Max): 1/1**

Selected experiments will emphasize the principles presented in the lecture course.

**BIOL3015**  
**GENERAL ECOLOGY**  
**Credits (Min/Max): 4/4**

A general ecology course studying ecosystem and population dynamics. Application of these concepts is made to aquatic and terrestrial ecosystems including current environmental problems. Fieldwork is an integral part of this course. Lecture and laboratory course.

**BIOL3015L**  
**GENERAL ECOLOGY-LAB**  
**Credits (Min/Max): 0/0**

Laboratory for BIOL3015 General Ecology

**BIOL3026**  
**CELL BIOLOGY**  
**Credits (Min/Max): 3/3**

A survey course in cell biology. The ultra structure of the Eukaryotic plant and animal cell are examined and related to cell function. Special emphasis is placed on membrane structure and functions.

**BIOL3028**  
**SPECIAL TOPICS:**  
**Credits (Min/Max): 2/2**

This special topics course is an introduction to virology, including the structure, genetics and mechanisms of reproduction of diverse groups of viruses. Infectious diseases and cancers that are caused by viruses and the use of viruses in biotechnology will also be discussed.

PreRequisites: BIOL2025 - MICROBIOLOGY

**BIOL3028A**  
**SPECIAL TOPICS:**  
**Credits (Min/Max): 3/3**

This course is a study of the development of Darwinian evolution from a historical and scientific perspective. An emphasis is placed on the significance of Darwin's discoveries on the Galapagos Islands, a small island chain off of the coast of Ecuador. Darwin's five week visit to the Galapagos Island in the 1830s was pivotal to the ultimate development of his evolutionary views. This course provides an intensive exploration of the islands, through the eyes of Darwin. Students will be accompanied by the instructor and a local guide in an exploration of flora, fauna, and geology of the various islands and how these wonders contributed to the development of modern evolutionary theory.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

**BIOL3029**  
**CLINICAL SCIENCE(CHEM3029)**  
**Credits (Min/Max): 3/3**

This non-laboratory course provides the background needed to test for increases and decreases in various body enzymes, proteins, electrolytes, cell types, etc. which occur in the body during the disease process. The course deals with the causes of false positives and negatives in various clinical tests. It also provides for basis for interpretation of test results and for indicators of additional testing. Cross-listed with CHEM3029

**BIOL3032**  
**VERTEBRATE EMBRYOLOGY**  
**Credits (Min/Max): 4/4**

Topics include gametogenesis, fertilization, cleavage, gastrulation and the early development of organ systems in vertebrates. Lecture and laboratory course.

**BIOL3032L**  
**VERTEBRATE EMBRYOLOGY-LAB**  
**Credits (Min/Max): 0/0**

Laboratory for BIOL3032 Vertebrate Embryology

**BIOL3036**  
**BIOCHEMISTRY I(CHEM3036)**  
**Credits (Min/Max): 3/3**

An introduction to the biochemical metabolism of the living cell. Cellular structure, macromolecules, metabolic pathways, energy transformations, regulatory mechanisms and molecular genetics are discussed. Cross-listed with CHEM3036

PreRequisites: CHEM2015 - ORGANIC CHEMISTRY I

**BIOL3037**  
**BIOCHEMISTRY I-LAB(CHEM3037)**  
**Credits (Min/Max): 1/1**

An introduction to current biochemical techniques including thin layer and column and gas chromatography, electrophoresis, spectrophotometry, and DNA technology. *Cross-listed with CHEM3037*

**BIOL3038**  
**BIOCHEMISTRY II(CHEM3038)**  
**Credits (Min/Max): 3/3**

A continuation of BIOL3036. The course covers advanced aspects of macromolecular structure, regulatory enzymes, intermediary metabolism (to include photosynthesis, biological oxidation and the chemosmotic theory, metabolic control mechanisms), signal transduction and hormonal regulation of metabolism, and molecular aspects of the nucleic acids and genetic engineering. *Cross-listed with CHEM3038*

**BIOL3045**  
**PATHOGENIC MICROBIOLOGY**  
**Credits (Min/Max): 2/2**

This course is an examination of how microbes cause disease, particularly in humans. The course focuses on the basic principles of pathogenesis and provides examples of the disease process caused by certain bacteria, viruses, fungi and protozoa.

PreRequisites: BIOL2025 - MICROBIOLOGY

**BIOL4017**  
**BIOSOLVE I**  
**Credits (Min/Max): 4/4**

BioSOLVE (Biology Student Operated Laboratory Venture) is based on a business model where students will collaborate as contractors with service-oriented individuals or institutions to perform specific, applied laboratory research services. In addition, students will participate in community service associated with the organization or project to which BioSOLVE is Contracted. BioSOLVE is organized as a two-semester course, where BioSOLVE I is analogous to the training period of a new employee in a research laboratory. In this course, students will participate in community service associated with the contracted work, study the role of biologists in providing solutions to community and global problems, study and experience the nature of scientific collaborations, learn the theory behind the relevant laboratory methods, develop proficiency in the laboratory techniques needed to perform the specific contracted work, and learn the skills of complete and accurate note-keeping, data processing and scientific writing.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

**BIOL4017L**  
**BIOSOLVE I-LAB**  
**Credits (Min/Max): 0/0**

Laboratory for BIOL4017 BioSOLVE I

**BIOL4018**  
**BIOSOLVE II**  
**Credits (Min/Max): 2/2**

BioSOLVE (Biology Student Operated Laboratory Venture) is based on a business model where students collaborate as contractors with service-oriented individuals or institutions to perform specific, applied laboratory research services. In addition, students participate in community service associated with the organization or project to which BioSOLVE is contracted. BioSOLVE is organized as a two-semester course, where BioSOLVE I is analogous to the training period of a new employee in a research laboratory and BioSOLVE II mimics the continued work of the trained employee. In BioSOLVE II, students continue to participate in community service associated with the contracted work, study the role of biologists in providing solutions to community and global problems, and study and experience the nature of scientific collaborations begun in BioSOLVE I. However, the major effort of BioSOLVE II will be dedicated to performing the specific contracted laboratory research for which students were trained in BioSOLVE I.

PreRequisites: BIOL4017 - BIOSOLVE I

**BIOL4018L**  
**BIOSOLVE II-LAB**  
**Credits (Min/Max): 0/0**

Laboratory for BIOL4018 BioSolve II

**BIOL4019**  
**IMMUNOLOGY**  
**Credits (Min/Max): 3/3**

This course involves the description and development of the immune system, which includes the chemical, molecular, and cellular basis of immune reactions. The genetic and chemical control of the immune response is a recurrent theme of the course. Major topics covered in the course include specific immunities, types of hypersensitivity, autoimmunity, transplantation and rejection and immune disorders and deficiencies.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

**BIOL4019L**  
**IMMUNOLOGY-LAB**  
**Credits (Min/Max): 1/1**

Lab work for BIOL4019 Immunology

**BIOL4020**  
**IMMUNOLOGY-LAB**  
**Credits (Min/Max): 1/1**

This course introduces laboratory techniques in immunology.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

#### **BIOL4030**

##### **MOLECULAR BIOLOGY**

**Credits (Min/Max): 3/3**

Molecular Biology is an introduction to the study of selected biological processes from a molecular perspective. Both eukaryotes and prokaryotes will be included. The molecular basis of the biosynthesis of macromolecules, intercellular and intracellular communication, genetics, immunology, infectious diseases and cancer will be discussed.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

#### **BIOL4031**

##### **MOLECULAR BIOLOGY-LAB**

**Credits (Min/Max): 1/1**

Molecular Biology Laboratory is an introduction to current molecular biology techniques including DNA and RNA extraction from cells, recombinant DNA cloning, electrophoresis and nucleic acid hybridizations (Southern blots and Northern blots), polymerase chain reaction and DNA sequencing. A project-based approach will be used. Both eukaryotes and prokaryotes will be studied.

#### **BIOL4051**

##### **BIOLOGY-INTERNSHIP I**

**Credits (Min/Max): 1/4**

A field experience in which the student works under the direction of a professional in an area related to biology. The student must select a faculty member from the Division of Sciences to serve as the academic supervisor. Students are required to complete 45 hours of field/academic work for each credit hour. The academic supervisor will determine the proportion of fieldwork and academic work requirements. A maximum of 4 credit hours may be used as biology elective credit.

#### **BIOL4052**

##### **BIOLOGY-INTERNSHIP II**

**Credits (Min/Max): 1/3**

A field experience in which the student works under the direction of a professional in an area related to biology. The student must select a faculty member from the Division of Sciences to serve as the academic supervisor. Students are required to complete 45 hours of field/academic work for each credit hour. The academic supervisor will determine the proportion of fieldwork and academic work requirements. A maximum of 4 credit hours may be used as biology elective credit.

#### **BIOL4055**

##### **SEMINAR IN BIOLOGY I**

**Credits (Min/Max): 1/1**

The course consists of meetings for discussion of special topics selected from various areas of scientific investigation of recent or historical origin. Reports are given on results of literature studies.

#### **BIOL4056**

##### **RESEARCH IN BIOLOGY**

**Credits (Min/Max): 1/4**

An individual investigation in the student's field of interest carried out under the supervision of a faculty member in the Division of Sciences. The student is responsible for defining a problem, planning a course of investigation and reporting his/her results in a scientific paper. A maximum of 4 credit hours may be used as biology elective credit.

#### **BIOL4057**

##### **BIOLOGY-INDEPENDENT STUDY**

**Credits (Min/Max): 1/4**

This course is designed to allow students to pursue advanced topics in biology or to study an area of biology in more depth. A member of the Division of Sciences must serve as the mentor for the study, and will, together with the student, outline a course of study. Regularly scheduled biology courses may not be taken as Independent Study. A maximum of 4 credit hours may be used as biology elective credit.

#### **BIOL4059**

##### **SEMINAR IN BIOLOGY**

**Credits (Min/Max): 2/2**

The course consists of meetings for discussion of special topics selected from various areas of scientific investigation of recent or historical origin. Reports are given on results of literature studies.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II



**CFST2010**  
**SURVEY OF HELPING PROFESSIONS & FAMILY POLICY**  
**Credits (Min/Max): 3/3**

This course will provide an overview of policies and legislation that directly impact the functioning of parents and their children in the U.S. Some of the topics to be covered include changes in the welfare system, aid to dependent children, immigration policies, and availability of health care.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**CFST3013**  
**COUPLE RELATIONSHIPS: AN EXPLORATION OF DIVERSITY**  
**Credits (Min/Max): 3/3**

This course will describe the various forms of family relationships in US society, including the traditional nuclear family, single-parenting, gay and lesbian families, and extended family systems. Particular emphasis will be placed on ethnic and socioeconomic diversity and its impact on child rearing practices.

**CFST3025**  
**CONTEMPORARY FAMILY STYLES**  
**Credits (Min/Max): 3/3**

This course examines marriage and family systems across the lifespan from the perspective of human development. It introduces students to historical perspectives on families, as well as the diversity of emergent family styles, including single parenthood, cohabitation, divorce, and remarriage in the context of the latest psychological research.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**CFST4055**  
**SENIOR SEMINAR**  
**Credits (Min/Max): 3/3**

This seminar will be conducted during the student's semester of field experience. Students will explore intervention approaches and techniques in working with families and children, along with strategies for identifying one's values and ethics in working with those in need. Students will conduct critical assessments of the functioning of the agencies in which they are placed, as well as increasing their awareness of professional roles and responsibilities in the helping profession.

PreRequisites: PSYC3011 - RESEARCH METHODS IN PSYCHOLOGY

**CHEM1001**  
**GENERAL CHEMISTRY I**  
**Credits (Min/Max): 3/3**

A study of the basic principles governing matter, energy and matter-energy interaction. Topics include atomic structure, bonding theory, aggregated states of matter, stoichiometry, thermodynamics, chemical kinetics, chemical equilibrium and electrochemistry.

**CHEM1002**  
**GENERAL CHEMISTRY II**  
**Credits (Min/Max): 3/3**

A study of the basic principles governing matter, energy and matter-energy interaction. Topics include atomic structure, bonding theory, aggregated states of matter, stoichiometry, thermodynamics, chemical kinetics, chemical equilibrium and electrochemistry.

PreRequisites: CHEM1001 - GENERAL CHEMISTRY I

**CHEM1003**  
**GENERAL CHEMISTRY I-LAB**  
**Credits (Min/Max): 1/1**

A series of experiments related to the content of CHEM1001 emphasizing laboratory techniques and familiarization with basic laboratory equipment. Open to all science majors and non-science majors with a strong interest in chemistry or a professional need.

**CHEM1004**  
**GENERAL CHEMISTRY II-LAB**  
**Credits (Min/Max): 1/1**

A series of experiments related to the content of CHEM1002, emphasizing laboratory techniques and familiarization with basic laboratory equipment. Open to all science majors and non-science majors with a strong interest in chemistry or a professional need.

PreRequisites: CHEM1003 - GENERAL CHEMISTRY I-LAB

**CHEM1007**  
**PRINCIPLES OF CHEM I(SLSC1008)**  
**Credits (Min/Max): 3/3**

An introduction to the basic principles of general, organic and biochemistry. The principles are related to living systems including the properties and metabolism of proteins, carbohydrates, lipids and nucleic acids. Lecture and laboratory course. Cross-listed with SLSC1008

**CHEM1008**  
**PRINCIPLES OF CHEM I-LAB**

**Credits (Min/Max): 1/1**

Laboratory for CHEM1007 Principles of Chemistry I

**CHEM1017**  
**PRINCIPLES/CHEMISTRY II**

**Credits (Min/Max): 3/3**

This course provides an introductory survey of biochemistry, along with biomedical applications. Important biomolecules such as hemoglobin will be discussed, with an emphasis on correlating structure with function. A discussion of intermediary metabolism follows, including an introduction to inborn errors of metabolism. The course concludes with a discussion of molecular including potential biomedical application.

PreRequisites: CHEM1007 - PRINCIPLES OF CHEM I(SLSC1008)

**CHEM1018**  
**PRINCIPLES/CHEMISTRY II-LAB**

**Credits (Min/Max): 1/1**

Laboratory for CHEM1017 Principles of Chemistry II

PreRequisites: CHEM1008 - PRINCIPLES OF CHEM I-LAB

**CHEM2013**  
**INTRO TO RESEARCH IN CHEMISTRY**

**Credits (Min/Max): 1/4**

This course provides an opportunity for a student to gain a high degree of proficiency with a particular laboratory procedure or instrument. The student will learn to optimize experimental parameters, refine existing laboratory procedures, and/or develop new applications. A maximum of 4 credit hours may be used as chemistry electives.

**CHEM2015**  
**ORGANIC CHEMISTRY I**

**Credits (Min/Max): 3/3**

A study of the classification and characterization of organic compounds, their preparation, properties and reactions. The application of modern organic theories to these subjects is stressed. Topics include nomenclature, bond theory, stereochemistry, synthesis, mechanisms, and structure determination by instrumental methods. Lecture and laboratory course.

PreRequisites: CHEM1002 - GENERAL CHEMISTRY II

**CHEM2015L**  
**ORGANIC CHEMISTRY I-LAB**

**Credits (Min/Max): 1/1**

Laboratory for CHEM2015

**CHEM2016**  
**ORGANIC CHEMISTRY II**

**Credits (Min/Max): 3/3**

A study of the classification and characterization of organic compounds, their preparation, properties and reactions. The application of modern organic theories to these subjects is stressed. Topics include nomenclature, bond theory, stereochemistry, synthesis, mechanisms, and structure determination by instrumental methods. Lecture and laboratory course.

PreRequisites: CHEM2015 - ORGANIC CHEMISTRY I

**CHEM2016L**  
**ORGANIC CHEMISTRY II-LAB**

**Credits (Min/Max): 1/1**

Lab for CHEM2016 Organic Chemistry

PreRequisites: CHEM2015L - ORGANIC CHEMISTRY I-LAB

**CHEM3011**  
**ANALYTICAL CHEMISTRY I**

**Credits (Min/Max): 3/3**

A study of the application of theoretical principles to quantitative analysis. The concept of chemical equilibrium is thoroughly discussed. Current analytical techniques are presented both in lecture and laboratory. Topics include the theory and practice of gravimetric analysis, volumetric analysis, spectrophotometric analysis and gas chromatography. Lecture and laboratory course.

PreRequisites: CHEM1002 - GENERAL CHEMISTRY II

**CHEM3011L**  
**ANALYTICAL CHEMISTRY I-LAB**  
**Credits (Min/Max): 1/1**

Laboratory for CHEM3011 Analytical Chemistry I

**CHEM3012**  
**ANALYTICAL CHEMISTRY II: INSTRUMENTAL METHODS OF ANALYSIS**  
**Credits (Min/Max): 3/3**

The fundamental principles and instrumentation used in optical spectroscopy, chromatography, nuclear magnetic resonance spectrometry, mass spectrometry, and electroanalytical chemistry are explored. Practical aspects such as data acquisition and analysis, operating characteristics, sensitivity and selectivity of instrumentation used by physical and biological scientists are examined. Lecture and laboratory course.

PreRequisites: CHEM3011 - ANALYTICAL CHEMISTRY I

**CHEM3012L**  
**ANALYTICAL CHEMISTRY II-LAB**  
**Credits (Min/Max): 1/1**

Laboratory for CHEM3012 Analytical Chemistry II

PreRequisites: CHEM3011L - ANALYTICAL CHEMISTRY I-LAB

**CHEM3015**  
**POLYMER CHEMISTRY**  
**Credits (Min/Max): 3/3**

A lecture course designed as an introduction to the field of polymer science from its origins to its place in current chemical research. Content will include the synthesis and physical chemistry of the important polymer types, key concepts of macromolecular science, and the role of the journal and patent literature in polymer related research and engineering.

PreRequisites: CHEM2016 - ORGANIC CHEMISTRY II

**CHEM3024**  
**ENVIRONMENTAL CHEMISTRY**  
**Credits (Min/Max): 3/3**

Environmental chemistry is a study of the principles of chemistry as applied to evaluating, understanding, modeling, predicting, and assisting in the correction of adverse anthropologic environmental interactions. Aspects to be considered include sources, reactions, transport, effects and fates of selected chemical species in various environmental media (water, oil, air, etc.) and the effects of both natural and anthropologic interactions.

**CHEM3026**  
**INORGANIC CHEMISTRY**  
**Credits (Min/Max): 3/3**

This course addresses structure and bonding in inorganic compounds, with an emphasis on the transition metals. It includes an introduction to group theory and related symmetry studies. The spectroscopy of inorganic compounds is also explored. A discussion of semiconductors is included.

PreRequisites: CHEM2016 - ORGANIC CHEMISTRY II

**CHEM3028**  
**SPECIAL TOPICS:**  
**Credits (Min/Max): 1/3**

A collection of courses covering a broad range of subjects of special interest. Topics may include: computer applications, environmental topics, ecological applications, optics, photochemistry and photophysics, laboratory instrumentation, and other topics as needed.

**CHEM3029**  
**CLINICAL SCIENCE(BIOL3029)**  
**Credits (Min/Max): 3/3**

This non-laboratory course provides the background needed to test for increases and decreases in various body enzymes, proteins, electrolytes, cell types, etc. which occur in the body during the disease process. The course deals with the causes of false positives and negatives in various clinical tests. It also provides for basis of interpretation of test results and for indicators of additional testing. Cross-listed with BIOL3029

**CHEM3036**  
**BIOCHEMISTRY I(BIOL3036)**  
**Credits (Min/Max): 3/3**

An introduction to the biochemical metabolism of the living cell. Cellular structure, macromolecules, metabolic pathways, energy transformations, regulatory mechanisms and molecular genetics are discussed. Cross-listed with BIOL3036

PreRequisites: CHEM2015 - ORGANIC CHEMISTRY I

**CHEM3037**  
**BIOCHEMISTRY I-LAB(BIOL3037)**  
**Credits (Min/Max): 1/1**

An introduction to current biochemical techniques including thin layer and column and gas chromatography, electrophoresis, spectrophotometry, and DNA technology.

PreRequisites: CHEM2015L - ORGANIC CHEMISTRY I-LAB

**CHEM3038**  
**BIOCHEMISTRY II(BIOL3038)**  
**Credits (Min/Max): 3/3**

An introduction to current biochemical techniques including thin layer and column and gas chromatography, electrophoresis, spectrophotometry, and DNA technology. Cross-listed with BIOL3038

PreRequisites: BIOL3036 - BIOCHEMISTRY I(CHEM3036)

**CHEM3045**  
**ORGANIC STRUCTURAL SPECTROSCOPY**  
**Credits (Min/Max): 3/3**

This course investigates the combined use of nuclear magnetic resonance, infrared, ultraviolet-visible, and mass spectrometry for the structure determination of unknown organic compounds. Various spectral acquisition techniques will be discussed in the lecture portion and attempted in the lab portion of the course, with emphasis placed on the proper interpretation of correctly acquired spectral data.

**CHEM4019**  
**IMMUNOLOGY(BIOL4019)**  
**Credits (Min/Max): 3/3**

This course involves the description and development of the immune system, which includes the chemical, molecular, and cellular basis of immune reactions. The genetic and chemical control of the immune response is a recurrent theme of the course. Major topics covered in the course include specific immunities, types of hypersensitivity, autoimmunity, transplantation and rejection and immune disorders and deficiencies. *Cross-listed with BIOL4019*

**CHEM4020**  
**IMMUNOLOGY-LAB (BIOL4020)**  
**Credits (Min/Max): 1/1**

This course introduces laboratory techniques in immunology. *Cross-listed with BIOL4020*

**CHEM4032**  
**PHYSICAL CHEMISTRY I**  
**Credits (Min/Max): 3/3**

A study of the physical properties of matter, the structure of matter and the theories of chemical interactions. Topics include ideal and real gases, liquids, solids, thermodynamics, chemical equilibria, phase equilibria, chemical kinetics, quantum mechanics, atomic and molecular structure and spectroscopic methods. Lecture and laboratory course.

PreRequisites: CHEM2016 - ORGANIC CHEMISTRY II

**CHEM4032L**  
**PHYSICAL CHEMISTRY I-LAB**  
**Credits (Min/Max): 1/1**

Laboratory for CHEM4032 Physical Chemistry I

**CHEM4033**  
**PHYSICAL CHEMISTRY II**  
**Credits (Min/Max): 3/3**

A study of the physical properties of matter, the structure of matter and the theories of chemical interactions. Topics include ideal and real gases, liquids, solids, thermodynamics, chemical equilibria, phase equilibria, chemical kinetics, quantum mechanics, atomic and molecular structure and spectroscopic methods. Lecture and laboratory course.

PreRequisites: CHEM4032 - PHYSICAL CHEMISTRY I

**CHEM4033L**  
**PHYSICAL CHEMISTRY II-LAB**  
**Credits (Min/Max): 1/1**

Laboratory for CHEM4033 Physical Chemistry  
PreRequisites: CHEM4032L - PHYSICAL CHEMISTRY I-LAB

**CHEM4051**  
**CHEMISTRY-INTERNSHIP I**  
**Credits (Min/Max): 1/4**

A field experience in which the student works under the direction of a professional in an area related to chemistry. The student must select a faculty member from the Division of Sciences to serve as the academic supervisor. Students are required to complete 45 hours of field/academic work for each credit. The academic supervisor will determine the proportion of fieldwork and academic work requirements. A maximum of 4 credit hours may be used as chemistry electives.

**CHEM4055**  
**SEMINAR IN CHEMISTRY I**  
**Credits (Min/Max): 1/1**

The course consists of meetings for discussion of special topics selected from various areas of scientific investigation of recent or historical origin. Reports are given on results of literature studies. One hour per week.

**CHEM4056**  
**RESEARCH IN CHEMISTRY**  
**Credits (Min/Max): 1/4**

A research project designed to explore an unanswered question and to contribute to the existing body of knowledge in the field. The student will plan and carry out the project with the assistance of a faculty supervisor. A maximum of 4 credit hours may be used as chemistry elective credit.

**CHEM4057**  
**CHEMISTRY-INDEPENDENT STUDY**  
**Credits (Min/Max): 0/4**

This course is designed to allow students to study advanced topics in chemistry. A member of the chemistry department must serve as the mentor for the study and will, together with the student, outline a course of study. Regularly scheduled chemistry courses may not be taken as Independent Study. A maximum of 4 credit hours may be used as chemistry elective credit.

**CHEM4059**  
**SEMINAR IN CHEMISTRY II**  
**Credits (Min/Max): 1/1**

The course consists of meetings for discussion of special topics selected from various areas of scientific investigation of recent or historical origin. Reports are given on results of literature studies. One hour per week.

**CHEM4060**  
**FORENSIC CHEMISTRY**  
**Credits (Min/Max): 3/3**

This course focuses on the use of analytical instrumentation to examine materials related to criminal and other investigations. Methods of analyzing trace metals, accelerants, explosives, drugs, alcohol, and other toxic materials will be presented. Sample preparation and analysis according to currently accepted methods will be included. The course will include both a lecture and a laboratory component.

PreRequisites: CRIM3041 - CRIMINALISTICS

**CHEM4060L**  
**FORENSIC CHEMISTRY-LAB**  
**Credits (Min/Max): 1/1**

Laboratory for CHEM4060 Forensic Chemistry

**CMET1001**  
**HUMAN COMMUNICATION(SLSO1008)**  
**Credits (Min/Max): 3/3**

In this course the student examines human, verbal, non-verbal and visual communication. Through an interactive classroom the student will combine the theory and definitions of the text with their experience to clarify and understand the concepts that make up human communication. In the classroom, writing, making presentations, working in groups, solving problems and applying creativity to the concepts of communication will be some of the ways the students learn and reinforce the subject matter. Written papers, research and computer-mediated-communication further reinforce the concepts of the course and serve as a means of evaluation of the student's understanding and absorption of the material. Cross-listed with SLSOC1008

**CMET1002**  
**MASS MEDIA & DIGITAL COMMUNICATION**  
**Credits (Min/Max): 3/3**

The subject matter of this course is the history and development of mass communication. The course will include examining the origin, economics, technology, mode of communication, communication effectiveness, social role and future of a variety of communication media including: newspapers, magazines, books, radio, television, film and computer-mediated-communication.

PreRequisites: CMET1001 - HUMAN COMMUNICATION(SLSO1008)

#### **CMET2001**

##### **COMMUNICATION IN ORGANIZATIONS**

**Credits (Min/Max): 3/3**

This course provides an overview of the interaction of structure, culture, technology, and communication in organizations. Classes will focus on case studies of the structures and culture of new technology organizations and the dynamic encountered when new technology meets old economy culture. Within this course the student will also practice specific communication skills such as preparation for job interviews, performance appraisals, professional presentations, and negotiation.

#### **CMET2003**

##### **COMMUNICATION BETWEEN CULTURES**

**Credits (Min/Max): 3/3**

This course begins with a focus study on communication factors which affect any cross-cultural interpersonal interaction. The students then survey specific differences between U.S. cultural customs and those of countries presently involved in La Roche's Pacem In Terris Institute. Finally, the role of the media in intercultural relations is discussed.

#### **CMET2004**

##### **FUND OF COMM FOR DESIGN PROFESS**

**Credits (Min/Max): 3/3**

The goal of this course is to introduce graphic design majors to career-relevant theories and practices of interpersonal and related mediated communication. Emphasis will be on designer-client and creative-team communication. Course content will include basic communication theory, the roles of non-verbal communication and language in professional communication, building professional relationships, teamwork and brainstorming, conflict management strategies, and cultural influences in design concepts and process. Students will integrate these concepts through class projects, which include writing, speaking, problem-solving and presentations.

#### **CMET2005**

##### **COMMUNICATION THEORY, RESEARCH & CRITICISM**

**Credits (Min/Max): 3/3**

This course is an introduction to the application of theory and research to mass communication including Internet communication. In addition, the course provides a starting point for students in understanding and creating a critical perspective on mass communication through the lens of specific theoretical perspectives.

PreRequisites: CMET1001 - HUMAN COMMUNICATION(SLSO1008)

#### **CMET2012**

##### **COMMUNICATION, SPORTS & CULTURE**

**Credits (Min/Max): 3/3**

Sports is a global, highly influential industry that ranges from sporting goods to professional and amateur sports organizations and effects populations across national boundaries and cultures. This class focuses on the ways that sport is a communication phenomena which influences how we see and interact within our own cultures and other cultures. In using communication theories, the class will focus on how people enact, produce, consume and organize sport as a primarily communicative activity. This will mean focusing on the ways the mass media discusses and influences the importance of sports within cultures; the ways various myths, metaphors, and narratives influence participants, fans, and media views on the role of sport; the ways small group and organizational communication theories can highlight and analyze relational issues in sport; and how our own language choices influence and reinforce the interaction between sport and culture.

#### **CMET2050**

##### **DIRECTED STUDY**

**Credits (Min/Max): 1/3**

This directed study opportunity meets the needs of students who require individual help with specific aspects of their major that cannot be sufficiently addressed by an existing course.

#### **CMET3002**

##### **NEW MEDIA & DIGITAL COMMUNICATION TECHNOLOGY**

**Credits (Min/Max): 3/3**

This course deals with the evolution of technology and the use of communications technology for business, entertainment and information. Through readings, discussion, group work and hands-on experience the class examines the social, cultural and economic aspects of communication technology.

#### **CMET3005**

##### **MESSAGE DESIGN & MEDIA**

**Credits (Min/Max): 3/3**

This course is a broad examination of mass media as message design with an emphasis on understanding the visual, aural and contextual aspects of a variety of communications media such as: film, video, print media, outdoor advertising and web pages. Elements of control in message design, as well as conceptual frameworks in popular culture, will be addressed from still and moving images, to sound, color, texture and text. Message Design will prepare students entering fields of media production to understand the inherent meaning of every element of mass media construction.

**CMET3029**

**SOCIAL PSYCHOLOGY(PSYC/SOCL3029)**

**Credits (Min/Max): 3/3**

Social psychology is the study of human behavior as it is shaped by the psychosocial environment. Topics include person perception, small group interaction, theories and methods of attitude change, interpersonal attraction, conformity, aggression, prejudice, persuasion, altruism and prosocial behavior. Cross-listed with PSYC/SOCL3029

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**CMET3040**

**SPECIAL TOPICS IN COMMUNICATION, MEDIA & TECHNOLOGY:**

**Credits (Min/Max): 3/3**

Social Media Networking: Internet social networking has become, in just a few years, a major form of communication, a marketing tool and a social centerpiece for the lives of millions of people around the world. In this class we will examine this important communication and technology phenomenon from a variety of perspectives including, cultural, economic, political, social and technological.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**CMET4001**

**LEGAL ISSUES OF MEDIA & DIGITAL COMMUNICATIONS**

**Credits (Min/Max): 3/3**

This course will examine the of laws and rules affecting various types of mass communication industries in the United States, i.e., broadcasting, cable communication, the Internet, advertising and journalism. The roles of the public, political leaders, research groups, the Federal Communication Commission (FCC), the Federal Trade Commission (FTC), the First Amendment and the Supreme Court will be examined.

**CMET4002**

**BROADCASTING, CABLE & NEW MEDIA**

**Credits (Min/Max): 3/3**

This course overviews the television, radio and cable television industries and the economic, regulatory, technological and legal forces on them. The course also deals with aspects of production in television, radio and cable programming such as newscasts, interviews, advertising, entertainment and public service programming.

**CMET4040**

**BROADCAST NEWS MEDIA**

**Credits (Min/Max): 3/3**

This course is an overview of television news and the role it plays in society. The course will look at the skills necessary for making a news production successful. It will also examine how a production is structured - maintaining that delicate balancing act of substance versus style..

PreRequisites: ENGL1012 - COLLEGE WRITING II

**CMET4050**

**SENIOR CAPSTONE**

**Credits (Min/Max): 3/6**

As a part of each Communication, Media, and Technology student's program, they are required to design and complete a focus project in the specific area of their choice. Similar to a Senior Thesis, the focus project should be a capstone for study in Communication, Media, and Technology and bring multiple elements together into a substantial research and/or production project. Individual project design requires faculty approval. Successful evaluation includes the participation of a local professional in the student's chosen area.

**CMET4051**

**COMMUNICATION-INTERNSHIP I**

**Credits (Min/Max): 1/6**

A practical work experience in a field setting which deals with communication. The student is given the opportunity to integrate his/her theoretical and practical knowledge under the supervision of professionals in the field of communication. This internship must be taken in the student's track specialization.

**CMET4052**

**COMMUNICATION-INTERNSHIP II**

**Credits (Min/Max): 1/6**

A practical work experience in a field setting which deals with communication. The student is given the opportunity to integrate his/her theoretical and practical knowledge under the supervision of professionals in the field of communication. This internship must be taken in the student's track specialization.

#### **CMET4055**

##### **SENIOR SEMINAR**

**Credits (Min/Max): 3/3**

An open-ended senior seminar dealing with various aesthetic questions and team efforts in which students act as art director, designer, illustrator, writer, or photographer. Emphasis is placed on educational experiences that enable the student to move from hypothetical design problems to the challenge of working with clients on real jobs. Communication Design majors play a significant role on creative teams.

#### **COMGDPFM**

##### **PITTSBURGH FILMMAKERS TOPICS**

**Credits (Min/Max): 3/3**

Pittsburgh Filmmakers' courses such as Filmmaking, Video Production II, Digital Non-Linear Editing, Web Page Design, Screenwriting, etc., are available to La Roche College students in Fall, Spring and Summer semesters. Courses are listed in the Pittsburgh Filmmakers Catalog that is available through academic advisors.

#### **COMM4003**

##### **MAKING COMMUNITY IN ANTEBELLUM AMERICA**

**Credits (Min/Max): 3/3**

In this course, we will study the emergence and development of a variety of local and regional communities in the period before the American Civil War. We will examine Native American prophetic and Christian revivalist congregations such as Prophetstown, Mashpee, Brothertown, and the Cherokee Nation; New England Transcendentalist and other perfectionist collectives such as Brook Farm and Thoreaus Walden; and womens reform societies affiliated with the Indian rights and abolitionist movements. By exploring such communities during a period of rapid change and social conflict in the United States, we will gain an appreciation for the diverse forms community may take, the relationships between individuals and communities (and between communities and the nation-state), the function of invented communities as means of addressing individual needs and contesting social inequities, and the ways in which literary texts represent, idealize, and critique these communities-in-the-making.

#### **COMM4009**

##### **MEDIA & DEMOCRACY**

**Credits (Min/Max): 3/3**

The concept of community, including individual responsibilities, will be the centerpiece of this course as democracy is ultimately the recognition of individual rights as well as commitment to the intrinsic equality of everyone in a community. Understanding current events, the evolving news process, and critical media concepts such as agenda setting and institutional bias will be an important part of the class. In learning the history and development of both democracy and media, we will examine and debate significant issues and their impact through primary documents such as Supreme Court decisions, the Constitution, FCC orders and regulations, and the commentary and analysis on each.

#### **COMM4013**

##### **RULE OF LAW**

**Credits (Min/Max): 3/3**

This course, through the integration of legal, historical and political concepts, introduces students to the rule of law one of the current governing principles of Western civilization and the historical foundation of that civilizations rights and liberties and its role in the American community. By using the rule of law as a guiding principle, this course insures that students develop a perspective on the community and its relationship to the individual that includes an historical knowledge of both the American and international legal systems, the political and social reasons for making a commitment to be governed by the rule of law, and an understanding of law as an essential pillar of American and Global Communities. Students will be introduced to the sometimes conflicting rights and duties of individuals and communities through an examination of selected appellate court cases, which will demonstrate the difficulty in resolving societal issues involving conflict between individuals and communities.

#### **COMM4018**

##### **THE ARTS & COMMUNITY IDENTITY**

**Credits (Min/Max): 3/3**

In this course, the theatrical and fine arts are used as a lens through which students will gain insight into how the identity of a community is impacted by and reflected in its cultural arts. Moving chronologically from the game-changing decade of the 1960's, the course provides insight into key events, led by the arts, and influenced by the arts, that resulted in vast changes in community politics, social structures & behaviors, economics, and spiritual practices. By studying the impact of the arts on communities, students gain a greater understanding of how a society forms its identity, and how its artistic culture becomes the vehicle through which to pass that identity to future generations.

#### **COMM4020**

##### **SOCIAL COMMUNITIES IN 20TH CENTURY AMERICA**

**Credits (Min/Max): 3/3**



**SOCIAL COMMUNITIES IN 20TH CENTURY AMERICA:** What role have social communities played in defining the evolution of the United States? This course explores the nature and power of social communities as sources of social change and of activism in 20th century America. Using social analysis, reading of original documents, 'thick description' of social communities, as well as film and videos, we will examine ways in which ordinary Americans-united by shared dreams, common experiences, social class, ideologies, common adherence to a social movement, created various types of social communities that responded to challenges but also shaped major political and economic changes in the past century.

**COMM4021**

**LAND & COMMUNITY IN NATIVE AMERICA**

**Credits (Min/Max): 3/3**

Since the arrival of Columbus, Native American and Euro-American communities have struggled over the meaning, value, and use of the land. In this course, we will study the origins of these conflicts, the differing beliefs about the land held by Native and Euro-American peoples, and the ways in which Native and Euro-American communities have affected and adapted to each other. The course utilizes the life and writings of conservationist Aldo Leopold, famous for his essay "The Land Ethic" (1949), as a lens through which to examine these issues.

**COMM4021H**

**LAND & COMMUNITY IN NATIVE AMERICA-HONORS**

**Credits (Min/Max): 3/3**

Since the arrival of Columbus, Native American and Euro-American communities have struggled over the meaning, value, and use of the land. In this course, we will study the origins of these conflicts, the differing beliefs about the land held by Native and Euro-American peoples, and the ways in which Native and Euro-American communities have affected and adapted to each other. The course utilizes the life and writings of conservationist Aldo Leopold, famous for his essay "The Land Ethic" (1949), as a lens through which to examine these issues. Historical records, from treaties to sacred stories to philosophical reflections, will be studied in depth.

**COMM4025**

**BUILDING HEALTHY COMMUNITIES**

**Credits (Min/Max): 3/3**

Utilizing the Healthy People 2020 framework this course will explore concepts of health and how different communities respond to the challenges facing them as they confront health care issues, strive to maintain wellness, and fight disease.

**COMM4036**

**VIRTUAL COMMUNITIES & SOCIAL MEDIA**

**Credits (Min/Max): 3/3**

This course will assist the student in examining virtual communities from the perspective of issues related to social media tools. Some areas that will be examined include ethical values, regulations/laws, free speech, content controls, intellectual properties, privacy, security, and safety in virtual communities. We will discuss what we mean by "virtual community" and how we encourage, discuss, analyze, understand, design, and participate in healthy communities in the age of many-to-many social media. Students will need the willingness to immerse in social media practices and develop a notion of how these practices affect self and community.

**COMM4038**

**THE CREATIVE PROCESS**

**Credits (Min/Max): 3/3**

The creative process is the process of change, of development, of evolution in the organization of subjective life - whether individually or within a community/society. Through identification, investigation, application, comparison and analysis of various creative thinking techniques, students will gain the knowledge and confidence required to address and question the ever-changing concept of "community".

**COMM4040**

**SURVIVING ECONOMICALLY IN THE COMMUNITY**

**Credits (Min/Max): 3/3**

This course is open to all students regardless of their major. It will provide participants an overview of personal and family financial planning; reviewing financial recordkeeping; planning your spending; planning giving including financial and time doing community service; tax planning; uses of consumer credit; making buying decisions, insurances, selecting investments, and retirement and estate planning. By the end of the course students should have a better understanding of personal finances so that they can be a positive participant in the local community and the global economy.

**CRIM1000**

**CSI: LA ROCHE**

**Credits (Min/Max): 3/3**

This course is a 6-day forensic event for students interested in crime scene investigations and the scientific analysis of trace evidence. Participants will investigate simulated crime scenes, analyze the evidence, solve the mock crime, and present their evidence at a mock trial. Students will be exposed to the theories underlying the analysis as well as direct hands-on experience with investigative procedures. Participants will also work directly with state-of-the art spectroscopy, chromatography, and DNA profiling instruments and equipment. This course is designed for high school juniors and seniors or college freshman interested in biology, chemistry and criminal justice.

**CRIM1001****INTRODUCTION TO CRIMINAL JUSTICE****Credits (Min/Max): 3/3**

This introductory course will introduce criminal justice as a system that is an institutional agent of American society. The components of police, courts, and corrections are discussed with the goal of defining their function and purpose and interdependence on one another. The patterns of crime and the processes of the American Criminal Justice System, law enforcement, judicial process, and corrections will be examined. Students will learn the terminology of the field, examine the methods of inquiry used in the field, and learn the objectives, policies and procedures of probation, parole, and prisons as well as some of the issues and problems.

**CRIM2005****CONSTITUTIONAL LAW(POLI2005)****Credits (Min/Max): 3/3**

This course will explore the difficulty in interpreting the meaning of constitutional language. The interpretive role of the U.S. Supreme Court will be studied through an examination of landmark constitutional decisions. The major schools of thought that guide interpretation will also be studied. *Cross-listed with POLI2005*

**CRIM2010****INTRODUCTION TO CORRECTIONS****Credits (Min/Max): 3/3**

Examines contemporary American correctional policies, and their relationship to the American criminal justice system. The nature of correctional institutions, correctional processes and policies will be presented. Current theories, trends and practices in the treatment of offenders, alternatives to traditional modes of incarceration, and problems and innovations in correctional administration will be discussed. Theories of correctional institutions as centers of rehabilitation or punishment will be examined along with public influences on correctional practices and policy development.

**CRIM2011****INTELLIGENCE ANALYSIS & PRESENTATION TECHNIQUES (NSCS2011)****Credits (Min/Max): 3/3**

This course examines the process used by analysts to develop strategic intelligence. Students will participate throughout the course as a member of a group tasked to complete an estimative project. Students will learn to apply strategic theory to critical national security problems. *Cross-listed with NSCS2011*

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM2012****ANALYSIS OF CRIM JUSTICE DATA****Credits (Min/Max): 3/3**

This course is primarily concerned with the ways and means of understanding drawing conclusions from criminal justice data. Students will learn to develop, use and evaluate studies of criminal justice data, and use their work to evaluate the effectiveness of criminal justice activities. Covered will be policy implications of various law enforcement techniques vis-a-vis their effectiveness in both short and long term. Students will work with and critique published criminological research and explore the use of data of a more local nature.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**CRIM2016****POLICE & SOCIETY(SOCL2016)****Credits (Min/Max): 3/3**

This course reviews current issues and problems in law enforcement and interrelations with the society-at-large and cultural/ethnic sub-groups. It examines informal exercise of police authority or force, governmental/agency policies, legal requirements, role demands, and conflicts experienced by police officers, and the norms of the police sub-culture. *Cross-listed with SOCL2016*

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM2018****PROFESSIONAL RESPONSIBILITY: LEGAL & ETHICAL CONCEPTS****Credits (Min/Max): 3/3**

This course examines the existent standards, codes, and laws pertaining to the legal and ethical conduct required of professionals working in the criminal justice and national security fields. Theoretical concepts will be explored, but the course will focus on the application of legal and ethical constructs to the everyday behavior of justice system professionals.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM2030****JUVENILE DELINQUENCY(SOCL2030)****Credits (Min/Max): 3/3**

This course will offer an analysis of Juvenile Delinquency and the juvenile justice system. It will examine the theories of the causes of juvenile crime and the processes of the juvenile justice system. *Cross-listed with SOCL2030*

**CRIM3010****CRIMINAL LAW****Credits (Min/Max): 3/3**

The basic principles of substantive criminal law will be illustrated. Concepts and patterns of criminal law and procedure will be discussed. The elements of specific crimes will be analyzed through case study. Public policy and the legal principles for determining criminal and civil liability will be considered.

**CRIM3011****RESEARCH METHODS FOR JUSTICE, LAW & SECURITY****Credits (Min/Max): 3/3**

An introduction to research techniques. Students will learn to form research questions, to select and carry out appropriate research strategies, and to present findings in a logical, clear and concise way.

**CRIM3020****CRIME MAPPING:SPECIAL TOPICS IN CRIMINAL JUSTICE****Credits (Min/Max): 3/3**

Crime analysis is the systematic examination of multi-faceted crime data. The identification, collection, storage, modification and dissemination of crime data enables law enforcement agencies to identify crime trends, patterns, and modus operandi; advise law enforcement administrators about emerging tactical trends; determine long term strategic trends; and improve operational and administrative effectiveness. Criminal analyst should master the ability to write, brief and disseminate findings to law enforcement stakeholders clearly and concisely. This course will provide an overview of these processes. The course will involve basic familiarization of a GIS (Geographic Information System) that is designed for graphical presentation and analytical discernment.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM3020D****ADVANCED CRIME SCENE PHOTOGRAPHY :SPECIAL TOPICS IN CRIMINAL JUSTICE****Credits (Min/Max): 3/3**

A collection of selected topics in the field of criminal justice. These will be topics of special interest to practitioners in this field. Possible topics include: Advanced Investigations, Crime Scene Photography, Forensic Accounting and White Collar Crime Correction, as well as other topics of special interest.

PreRequisites: CRIM3040 - CRIME SCENE INVESTIGATION & FORENSICS

**CRIM3020E****VIOLENT OFFENDERS & PRISON COUNSELING:SPECIAL TOPICS IN CRIMINAL JUSTICE****Credits (Min/Max): 3/3**

A collection of selected topics in the field of criminal justice. These will be topics of special interest to practitioners in this field. Possible topics include: Advanced Investigations, Crime Scene Photography, Forensic Accounting and White Collar Crime Correction, as well as other topics of special interest.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM3030****THEORIES OF CRIMINAL DEVIANCE (SOCL3030)****Credits (Min/Max): 3/3**

An examination of the etiology and major theories of criminality, with special reference to the rational choice, routine activity, biological and psychosocial theories of deviance. This course will examine criminal deviance by analyzing both criminal and victim populations, with particular emphasis on crime typology and the analysis of criminal behavior. The responses of the Criminal Justice System and private security experts to criminal behavior from situational crime prevention techniques to correctional treatment methods are explored and discussed. Cross-listed with SOCL3030

PreRequisites: ENGL1012 - COLLEGE WRITING II

**CRIM3032****COMMUNITY CORRECTIONS****Credits (Min/Max): 3/3**

This course is a study of intermediate punishments conducted in a community environment as alternatives to incarceration. It will examine alternatives to incarceration by means of community-based adult and juvenile programs. Mission, structure and operation of probation and parole agencies as well as the role of the courts and prosecutors are examined. The probation, parole and pardon options are also reviewed. Other options will be examined, including work release programs, halfway houses, prerelease, and restitution-based programs.

**CRIM3034****ENTERPRISE & TRANSNATIONAL CRIME****Credits (Min/Max): 3/3**

The course addresses organized crime in the United States and internationally. It presents organized crime as criminal business ventures that meet the demand of its consumer base and/or engages in activities that provide profits both legal and illicit into the organization. International crime is introduced, demonstrating how organized crime networks transcend national borders, and how individual criminals have learned to use the ease of travel and identity falsification to operate in or conceal themselves from national law enforcement. Law enforcement strategies and their effectiveness are covered.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM3036**  
**TERRORISM**

**Credits (Min/Max): 3/3**

This course addresses the historical and current-day development and spread of terrorism. The class investigates the goals of terrorism and the social, political and ideological reasons for the use of terrorism. Counter-terrorist activities and preventive measures are explored. The course will address law enforcement responses to incidents of terrorism.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**CRIM3040**  
**CRIME SCENE INVESTIGATION & FORENSICS**

**Credits (Min/Max): 3/3**

Instruction on the basic procedures in the investigation of a crime scene. Emphasis will be on the detection of evidence and preservation of that evidence at the crime scene. Theories of information, observation, and interrogation, will be discussed. The ethics of investigative procedures and methods of obtaining evidence will be emphasized. Forensic analysis techniques will be studied.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM3041**  
**CRIMINALISTICS**

**Credits (Min/Max): 4/4**

A comprehensive examination of the application of science to the physical evidence of a crime. Crime scene processing procedures will be linked to the laboratory analysis of physical evidence. The course will also include training in scientific report writing and courtroom testimony, to include a moot court exercise.

PreRequisites: BIOL1004 - GENERAL BIOLOGY II

**CRIM3042**  
**APPLIED CRIMINOLOGY**

**Credits (Min/Max): 3/3**

This course is designed to examine crime and offender typologies and the investigative and legal methods that can be applied to prevent, resolve, or solve crimes committed by career offenders. An overview of the major theories of crime causation is furnished. An emphasis is placed on choice theory, routine activities theory, routine activities theory and their applied model-situational crime prevention. The topics of crisis negotiation, interpersonal conflict resolution, crime prevention, and informant development are explored and practical exercises are employed to enhance student understanding.

**CRIM3043**  
**COMPUTER CRIME**

**Credits (Min/Max): 3/3**

A comprehensive examination of computer crime, information systems security and cyber law. The investigative process as applied to the cyber criminal will be emphasized. Statutes specific to cyber crime will be studied. Crime prevention strategies and techniques will be presented and applied using the case study method.

**CRIM3045**  
**CRIMINAL INVESTIGATION**

**Credits (Min/Max): 3/3**

This course covers the fundamentals of criminal investigation. It concentrates on the essentials of securing a crime scene, modus operandi of perpetrators, sources of information, principles of careful observation and recording interview/interrogation and case preparation.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM3046**  
**SECURITY MANAGEMENT & LOSS PREVENTION**

**Credits (Min/Max): 3/3**

This course features an overview of public and private security, including history of private security and asset protection, the role of security in American society, and current industry practices. The course covers the security role in industry, business and government and includes loss prevention, control and risk management. The legal foundations of private security are covered, as is interaction with government law enforcement. Specialization and career opportunities are discussed.

**CRIM3048**  
**COURTS & SOCIAL POLICY(SOCL3048)**  
**Credits (Min/Max): 3/3**

An analysis of the interrelationship between law and society is presented. the functions, methods and theories of legal systems are covered. An assessment of the determinants and consequences of legal decisions is also presented. Cross-listed with SOCL3048

**CRIM3052**  
**ADMINISTRATION OF CRIMINAL JUSTICE ORGANIZATIONS**  
**Credits (Min/Max): 3/3**

This course examines the principles of management and leadership as they relate to criminal justice organizations. Leadership, planning, and legal concepts are emphasized, and the case study method is employed as an applied learning tool.

**CRIM3054**  
**LAW ENFORCEMENT COMMUNICATIONS**  
**Credits (Min/Max): 3/3**

This course instructs students in the proper methodology of law enforcement communications. Students will be required to conduct interviews, effectively compile investigative notes, and reduce this information to a series of written and oral reports.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**CRIM3060**  
**TREATMENT OF OFFENDERS**  
**Credits (Min/Max): 3/3**

This course will examine the methods of treatment of offenders that are practiced or available for use in both institutional and community settings. A variety of approaches intended to modify behavior, values and/or attitude will be compared. Rehabilitation, retribution and incapacitation as alternatives are discussed and evaluated.

**CRIM3061**  
**COURTS:STRUCT & PROCESS**  
**Credits (Min/Max): 3/3**

This course will cover the history of adjudication and the roots of local, state and the federal court system; the role of law enforcement officers and others with interests in the court system. Court administration and the activities of the courts and judges are reviewed. Federal/state jurisdiction issues will be covered. The procedures of courts in the administration of criminal justice will be examined in view of the precepts of fairness in the courts.

**CRIM3063**  
**CRIMINAL BEHAVIOR:LAW & PSYCHOLOGY(PSYC3063)**  
**Credits (Min/Max): 3/3**

This course, through an integration of psychology, criminology, political science and law, examines the role of the outlaw in both our community and global society. Elements of the course include psychological explanations of individual personality development, choice, both rational and thrill-motivated theories of criminality, examination of the role that powerful outlaws have played in our communities, and the rise of deviant individuals who have gained enormous power by capitalizing on the forces of globalization. The course also intertwines the legal means that society has employed to restrict the power of the outlaw in our society and the capacity of individuals to overcome attempts at domination. Cross-listed with PSYC3063

**CRIM4012**  
**EMERGENCY PREPAREDNESS & CRISIS MANAGEMENT**  
**Credits (Min/Max): 3/3**

This course examines the issues and processes associated with the most critical domains of security management. In particular, the course will focus on risk analysis, security surveys, response planning, and the principles of the all-hazards approach to risk management.

**CRIM4030**  
**COMPUTER FORENSICS INVESTIGATIONS**  
**Credits (Min/Max): 3/3**

This course provides a comprehensive examination of the application of computer security techniques to the physical evidence of a crime. Crime scene processing procedures will be utilized in the analysis of physical digital evidence. The course will also include training in report writing and courtroom testimony, to include a moot court exercise.

PreRequisites: CRIM3043 - COMPUTER CRIME

**CRIM4051**  
**CRIMINAL JUSTICE-INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A field course in which the student is actively involved in working with a criminal justice agency or a private security force. The student will meet periodically with a faculty mentor to examine the relationships between theoretical concepts and the field experience. A strong leadership and service-learning component will be integrated into the course.

#### **CRIM4055**

##### **SENIOR CAPSTONE EXPERIENCE**

**Credits (Min/Max): 3/3**

The Senior Capstone course is the final correlating experience of the educational process for all criminal justice majors. Students will apply criminal justice theories and concepts in analyzing the published research concerning a critical issue in criminal justice and writing a comprehensive literature review of the selected issue. The student will also demonstrate, through test performance, the knowledge they have gained from the required courses of the criminal justice curriculum. Students will also participate in a variety of educational activities designed to assist them in obtaining employment in the criminal justice career field.

PreRequisites: CRIM2012 - ANALYSIS OF CRIM JUSTICE DATA

#### **CRIM4057**

##### **CRIMINAL JUSTICE-INDEPENDENT STUDY**

**Credits (Min/Max): 1/3**

This course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area of study.

#### **CSCI1002**

##### **INTRO TO COMPUTER SCIENCE (SLSC1012)**

**Credits (Min/Max): 3/3**

This course is an introduction to the field of computer science. A scientific foundation of many aspects of CS will be developed upon which more advanced CS courses will build. Topics include: computer design, computer programming, information processing, algorithm design, operating systems, software engineering, and artificial intelligence. Cross-listed with SLSC1012

#### **CSCI1010**

##### **PROGRAMMING I**

**Credits (Min/Max): 3/3**

This course introduces the art of algorithm design and problem solving in the context of computer programming. The basic structure and logic of the Java language is presented. Topics covered include data types and operators, control flow, repetition and loop statements, arrays and pointers. Good programming practices will be taught and encouraged.

PreRequisites: CSCI1002 - INTRO TO COMPUTER SCIENCE (SLSC1012)

#### **CSCI1010L**

##### **PROGRAMMING I-LAB**

**Credits (Min/Max): 1/1**

Lab work for CSCI1010 Programming I.

#### **CSCI1015**

##### **VISUAL BASIC PROGRAMMING**

**Credits (Min/Max): 3/3**

This course introduces computer programming in general, and the Visual Basic programming language in particular. Topics covered include data types and operators, control flow, repetition and loop statements, arrays, and structures. The intent is to familiarize the student with the MS Windows Programming environment using Visual Studio and graphical user interfaces using frames, windows, dialog boxes, and common controls. Good programming practices will be taught and encouraged.

#### **CSCI2010**

##### **PROGRAMMING II**

**Credits (Min/Max): 3/3**

This course is a follow-on to Programming I. Topics covered include; data structures, file input and output, and other advanced object-oriented programming concepts found in Java.

PreRequisites: CSCI1010 - PROGRAMMING I

#### **CSCI2010L**

##### **PROGRAMMING II-LAB**

**Credits (Min/Max): 1/1**

Lab work for CSCI2010 Programming II

PreRequisites: CSCI1010 - PROGRAMMING I

**CSCI2020**  
**ALGORITHM ANALYSIS**  
**Credits (Min/Max): 3/3**

This course teaches techniques of programming utilizing data structures such as lists, stacks, and queues and algorithmic approaches such as recursion, searching and sorting. These techniques are learned through programming exercises as well as classroom study.N×

PreRequisites: CSCI2010 - PROGRAMMING II

**CSCI2025**  
**SYSTEMS PROGRAMMING**  
**Credits (Min/Max): 3/3**

This course will introduce the students to the important systems language,C,and to several topics related to the hardware and software environment. These are issues related to system interfaces and software synchronization provided by operating systems, the linkage of operating system services to application software, and the fundamental mechanisms for computer communications.

PreRequisites: CSCI2010 - PROGRAMMING II

**CSCI2025L**  
**SYSTEMS PROGRAMMING-LAB**  
**Credits (Min/Max): 1/1**

This course will provide the hands-on laboratory component to the Systems Programming course which will introduce the students to the important systems language,C,and to several topics related to the hardware and software environment. These are issues related to system interfaces and software synchronization provided by the operating system, the linkage of operating system services to application software, and the fundamental mechanisms for computer communications.

**CSCI2030**  
**ANALOG ELECTRONICS**  
**Credits (Min/Max): 3/3**

This is an introductory course of electronics. Students will learn the fundamental principles of electronics circuit chips. Topics to be studied include basic circuit theory, diode applications, Bipolar and Field Effect transistors, operational amplifiers, and basic TTL gates. This course will provide students with both theoretical and practical knowledge necessary to start an understanding of computers and data communication devices.

**CSCI2035**  
**COMPUTER ORGANIZATION & DESIGN**  
**Credits (Min/Max): 3/3**

This course will introduce students to the function and design of digital computers. Topics covered include: Value representation, ALU structure and operation, simple digital electronics, basic assembly language programming, I/O and bus architectures, and complex processor architectures including virtual memory.

PreRequisites: CSCI2025 - SYSTEMS PROGRAMMING

**CSCI2035L**  
**COMPUTER ORGANIZATION & DESIGN- LAB**  
**Credits (Min/Max): 1/1**

This course will provide the hands-on laboratory component to the Computer Organization & Design course which will introduce the students to digital design and assembly language programming.

**CSCI2055**  
**DATABASE-SYSTEMS THEORY**  
**Credits (Min/Max): 3/3**

This course is designed to present the essential concepts, principles, techniques, and mechanisms for the design, analysis, use, and implementation of computerized database systems. Key information management concepts and techniques are examined: database modeling and representation; information interfaces - access, query, and manipulation, implementation structures, and issues of distribution. The database and information management system technology examined in this course represents the state-of-the-art, including traditional approaches as well as recent research developments. The course should allow the student to understand, use, and build practical database systems. The course is intended to provide a basic understanding of the issues and problems involved in database systems, a knowledge of current practical techniques for satisfying the needs of such a system, and an indication of the current research approaches that are likely to provide a basis for tomorrow's solutions.

PreRequisites: CSCI1010 - PROGRAMMING I

**CSCI3028**  
**SPECIAL TOPICS:**  
**Credits (Min/Max): 1/1**

This course is designed to prepare interested students for the emerging global standard for entry level software developers, the Software Developer Certification (SDC). The SDC is being created at Carnegie Mellon University, is funded by Kenya through money made available by the World Bank. A number of major international software companies are using the SDC to help in selecting the right people to bring into the employment onboarding process.

**CSCI3032**  
**ELECTRONIC COMMUNICATION**  
**Credits (Min/Max): 3/3**

This course will present the fundamental technology of wireless and cable telecommunications. Students will become familiar with modulation/demodulation and noise reduction for high-fidelity electronic and data communications. They will also learn advanced data communication technologies such as digital broadband technology. Transition from electronics (applications of electrons) to photonics (applications of light and photons) is also presented. Hands-on laboratory projects will be conducted in connection with the basic hardware of telecommunication not covered in CSCI2030 and CSCI3030.

**CSCI3040**  
**OPERATING SYSTEMS**  
**Credits (Min/Max): 3/3**

This course is an in-depth study of modern operating systems. Students will learn about the services provided by an operating system, how to use these services and how the services are implemented. Topics covered include: Initialization (boot), Processes, Controlling shared resources, Memory, Bulk storage systems, and Network Communications (TCP/IP) as they relate to the computer operating system.

PreRequisites: CSCI2035 - COMPUTER ORGANIZATION & DESIGN

**CSCI3042**  
**COMPUTER SECURITY**  
**Credits (Min/Max): 3/3**

This course covers fundamental issues and first principles of security and information assurance. The course will look at the security policies, models and mechanisms related to confidentiality, integrity, authentication, identification, and availability issues related to information and information systems. Other topics covered include basics of cryptography (e.g., digital signatures) and network security (e.g., intrusion detection and prevention), risk management, security assurance and secure design principles, as well as e-commerce security. Issues such as organizational security policy, legal and ethical issues in security, standards and methodologies for security evaluation and certification will also be covered.

PreRequisites: CSCI1010 - PROGRAMMING I

**CSCI4010**  
**COMPILER DESIGN**  
**Credits (Min/Max): 3/3**

Compiler Design is an area of computer science where students learn formal language definitions and grammars. They will ultimately learn how to translate one language into another. This subject has many applications besides just the creation of language compilers!

**CSCI4020**  
**INTRO TO SOFTWARE ENGINEERING**  
**Credits (Min/Max): 3/3**

This course is an introduction to field of software engineering. It will combine a range of topics integral to the design, implementation, and testing of a medium-scale software system with the practical experience of implementing such a project as a member of a programmer team.

**CSCI4045**  
**TELECOMMUNICATIONS I**  
**Credits (Min/Max): 3/3**

This is the first of a two-semester introduction to telecommunications, one of the most important and rapidly growing fields of current technology. The topics covered in this first part include an overview of telecommunications, digital transmission fundamentals, and introduction to networks, physical layer protocols and medium access control.

PreRequisites: CSCI2010 - PROGRAMMING II

**CSCI4046**  
**TELECOMMUNICATIONS II**  
**Credits (Min/Max): 3/3**

This is the second of a two-semester introduction to telecommunications, one of the most important and rapidly growing fields of current technology. The major topics to be covered in this second part are: coding theory and cryptography; routing in packet-switching networks and shortest-path algorithms; data compression and information theory.

**CSCI4050**  
**NUMERICAL COMPUTING I**  
**Credits (Min/Max): 3/3**



A survey of numerical techniques for numerically solving a variety of mathematical problems with an emphasis on application as opposed to theory. Topics to be covered include: sources of error in numerical computations, solving non-linear equations, solving sets of simultaneous equations, interpolating polynomials, numerical integration and numerical differentiation.

**CSCI4051**  
**NUMERICAL COMPUTING II**  
**Credits (Min/Max): 3/3**

Second semester of a survey course in numerical techniques for the numerical solution of a variety of mathematical problems with an emphasis on application as opposed to theory. Topics to be covered include: initial-value problems, partial differential equations, curve fitting and approximation of functions.

**CSCI4055**  
**ADVANCED DATABASE THEORY**  
**Credits (Min/Max): 3/3**

This course is a continuation of Database-Systems Theory. It concentrates on object-oriented database design, object relational design, data warehousing, data marts, and data mining. Emphasis will be placed on modeling languages such as UML, ODMG, as well as ODL and SQL3 standards. Also, Online Analytical Processing and its relationship to data warehousing, data mining, and decision support systems will be discussed.

PreRequisites: CSCI2055 - DATABASE-SYSTEMS THEORY

**CSCI4070**  
**INTRO TO ARTIFICIAL INTELLIGENCE**  
**Credits (Min/Max): 3/3**

This course will provide an introduction to the fundamental concepts and techniques underlying the construction of intelligent computer systems. Topics covered in the course include: problem solving and search; logic and knowledge representation; planning; uncertain knowledge and reasoning; and machine learning. Formal approaches will support implementation, both through available tools and student-written functions.

**CSCI4098**  
**CS CAPSTONE EXPERIENCE I**  
**Credits (Min/Max): 3/3**

Software engineering is the discipline concerned with the application of theory, knowledge, and practice for effectively and efficiently building software systems that satisfy the requirements of users and customers. This is the first semester of a year long experience designed to present software engineering theory in context with a medium-size software project for an actual customer.

**CSCI4099**  
**CS CAPSTONE EXPERIENCE II**  
**Credits (Min/Max): 3/3**

This is the second semester of a year long experience. Software engineering is the discipline concerned with the application of theory, knowledge, and practice for effectively and efficiently building software systems that satisfy the requirements of users and customers. This is the first semester of a year long experience designed to present software engineering theory in context with a medium-size software project for an actual customer.

PreRequisites: CSCI4098 - CS CAPSTONE EXPERIENCE I

**EDEL2000**  
**ORIENTATION TO PreK-4 EDUCATION**  
**Credits (Min/Max): 3/3**

This course will focus on the historical development of PreK-4 education and explore the different learning environments that are optimal for student learning of all ability ranges and from different cultures. The student will gain insights into the philosophy and objectives of the PreK-4 curriculum and be introduced to various instructional strategies that can be used in teaching the various subject areas. It will examine and analyze the various curriculum components of the different educational designs for educating students from when students are teachable through grade four. This class should be taken in conjunction with Observation I so that students can relate theory to practice in the classroom.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD EXPERIENCE

**EDEL2010**  
**OBSERVATION 1 (PreK)**  
**Credits (Min/Max): 2/2**

This class will provide the student with the opportunity to work with a teacher in a pre-school setting/classroom. This field work will coincide with the classes of Child Development, Educational Psychology, and Orientation to PreK-4 Education. This will allow the student to connect the theory gained in these classes to practice in the early childhood classroom according to PA learning standards. Field Experience: 36 total hours (6 hours Stage 2 and 30 hours Stage 3 field experience).

**EDEL2020**  
**OBSERVATION II (K-4)**  
**Credits (Min/Max): 2/2**

This course will provide the student with the opportunity to work with a teacher in a kindergarten to fourth grade classroom. This field work will allow the student to connect the theory gained in Child Development, Educational Psychology, and Orientation to PreK-4 Education classes to practice in the classroom according to PA learning standards. Seminars will be in integral part of the class to discuss what the student is observing, provide additional support, and theory to the student. Field Experience: 36 total hours (6 hours Stage 2 and 30 hours Stage 3 field experience).

PreRequisites: EDEL2000 - ORIENTATION TO PreK-4 EDUCATION

**EDEL2030**  
**METHODS OF TEACHING HEALTH & PHYSICAL EDUCATION-PREK-4TH GRADE**  
**Credits (Min/Max): 2/2**

The course will focus on the importance of proper health and physical activities, according to the Pennsylvania early learning standards, for PreK-4th grade students of all ability ranges and from different cultures in an inclusive classroom. Students will be provided with introductory experiences in physical education, health, and assessment of student performance. Students will design and practice teaching methods for physical education/health activities for the PreK-4 grades. An integral part of this course will be a field experience in a variety of classrooms across the PreK-4 grade span to observe teachers presenting physical education/health lessons. Field Experience: 4 hours of Stage 1 Field Experience

PreRequisites: EDEL2000 - ORIENTATION TO PreK-4 EDUCATION

**EDEL3015**  
**CREATIVE THINKING: METHODS OF INTEGRATING ART/MUSIC THROUGHOUT THE PREK-4 CURRICULUM**  
**Credits (Min/Max): 2/2**

This class will present strategies and teaching techniques for integrating art and music across the curriculum, aligned with the Pennsylvania early learning standards, for students in the PreK-4 grades of all ability ranges and from different cultures in an inclusive classroom. Students will be provided with introductory experiences in art and music and assessment of student performance. Students will design and practice teaching methods to incorporate art and music into content areas across the PreK-4 curriculum. An integral part of this course will be a field experience in a variety of classrooms across the PreK-4 grade span to observe teachers who incorporate art and music into their lessons. Field Experience: 4 hours of Stage 1 Field Experience

PreRequisites: EDEL2000 - ORIENTATION TO PreK-4 EDUCATION

**EDEL3025**  
**METHODS OF TEACHING WRITING PREK-4**  
**Credits (Min/Max): 2/2**

This course will provide opportunities for you to learn how to teach PreK-4 students to learn to write for a variety of purposes, based on the Pennsylvania academic standards and assessment anchors. You will learn how to use backwards-design to create lessons that focus on student growth areas, and how to assess writing samples to inform further instruction. In this process you will also learn how to improve your own writing so that you can serve as a model for your students. You will be expected to demonstrate model handwriting for printing and cursive.

PreRequisites: EDEL2000 - ORIENTATION TO PreK-4 EDUCATION

**EDEL3035**  
**METHODS OF TEACHING READING PREK-4**  
**Credits (Min/Max): 3/3**

This course provides the foundation for teaching reading according to PA academic standards and assessment anchors for PreK through grade 4, for students with a broad range of abilities and diverse cultural backgrounds. The focus is on research-based instruction around the Five Big Ideas of Reading: fluency, comprehension, vocabulary, phonemic awareness and the alphabetic principle. Strategies for dealing with struggling readers will be emphasized, and you will learn to differentiate your reading instruction for students reading above-, on-, and below-level. This will be exciting, intense, hands-on work that will teach you to understand reading in a whole new way.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

**EDEL3045**  
**TEACHING READING & LANGUAGE ARTS PRACTICUM PREK-4**  
**Credits (Min/Max): 2/2**

This course provides a weekly supervised practicum and seminar. This offers a supportive, scaffolded, first step into teaching. Students will be teaching reading and language arts in a PreK-4th grade level classroom. Instructional topics will be assigned by classroom mentor teachers. Topics will address the grade-level standards for reading, writing, speaking and listening. Practicum students will use assessment information to design lessons, and differentiate instruction to meet student needs. Throughout the practicum, students will be able to demonstrate effective reading and language arts instruction, and promote skill development in early elementary students. The primary objective of this course is for students to practice planning and implementing standards-based reading and language arts instruction that is very interactive, and differentiated for student strengths and needs. Field Experience: 15 hours of Stage 3 Field Experience

PreRequisites: EDEL3035 - METHODS OF TEACHING READING PREK-4

**EDEL3055****METHODS OF TEACHING SOCIAL STUDIES PREK-4****Credits (Min/Max): 3/3**

This class will provide the pre-service PreK-4 teacher with strategies and techniques for teaching social studies in a heterogeneous inclusive classroom according to PA early learning standards and the National Council for the Social Studies thematic strands, which include the disciplines of geography, history, economics, and civics and government. Emphasis will be on organizing subject matter and translating it to children through a variety of methods which address different learning styles. An integral part of the course will be a field placement experience in a PreK-4 classroom. This field placement will allow the student to connect theory to practice and provide an experience of working with children. Field Experience: 10 hours of Stage 3 field experience (teaching Junior Achievement)

**EDEL4035****METHODS OF TEACHING SCIENCE PREK-4****Credits (Min/Max): 3/3**

This class will provide the pre-service PreK-4 teacher with strategies and techniques for teaching science in a heterogeneous inclusive classroom according to PA learning standards and the National Science Teachers Association utilizing a 'hands-on' approach. Emphasis will be on organizing subject matter including environment and ecology, life sciences, physical sciences, and earth and space science, and translating it to children through the students' participation in various methods of learning. The student will present a demonstration lesson utilizing the inquiry lesson plan format to his/her peers. An integral part of this course will be a field experience in a PreK-4 classroom. This field placement will allow the student to connect theory to practice and provide an experience of working with children. Field Experience: 10 hours of Stage 3 field experience

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

**EDEL4040****METHODS OF TEACHING MATH PREK-4****Credits (Min/Max): 3/3**

This course provides the theoretical base of principles for teaching math according to PA learning standards and the National Council of Teachers of Mathematics to students from infancy through grade 4, inclusive of special needs and gifted children. It will enable the student to learn mathematical concepts, skills, and problem solving methods through the use of manipulatives and be able to demonstrate this knowledge through demonstration lessons to his/her peers. Through the experiences provided, the student will gain knowledge in the various strategies for the use of these manipulatives, the selection of effective materials and techniques, and diagnostic procedures.

PreRequisites: EDEL2000 - ORIENTATION TO PreK-4 EDUCATION

**EDEL4045****TEACHING MATH PRACTICUM PREK-4****Credits (Min/Max): 2/2**

This course provides a weekly supervised practicum and seminar based on the Methods of Teaching Math course. The student will be assigned a class or a small group of students where he/she will diagnose the students' needs and then create and implement lessons weekly according to PA learning standards that focus on the diagnosis found. The student will be able to demonstrate and promote effective strategies for teaching children of all ability ranges in his/her lessons plans and teaching. The student will spend one period a week in a classroom teaching and this will be accompanied with a seminar focusing on the plans and teaching that is implemented weekly. Field Experience: 15 hours of Stage 3 Field Experience

PreRequisites: EDEL4040 - METHODS OF TEACHING MATH PREK-4

**EDEL4060****INTEGRATING CURRICULUM & INSTRUCTION****Credits (Min/Max): 3/3**

In the final stages of preparing participants to enter the teaching profession, this class acts as the capstone of the program prior to student teaching. This course will offer the participants opportunities to connect the various methods courses and strategies learned. Participants will learn and practice ways to integrate different subject areas into a cohesive unit using projects, and to provide cognitively engaging instruction for students of many ability levels and learning styles in an inclusive setting. As always, instruction will be planned according to PA learning standards. The course will also address the duties of the teaching profession that extend beyond daily instruction, which includes providing opportunities to learn and practice strategies for working with families and keeping them engaged in their children's education. Participants will invest significant professional development hours in preparing the assignments of this course, including some materials useful during student teaching.

PreRequisites: EDEL2000 - ORIENTATION TO PreK-4 EDUCATION

**EDEL4064****STUDENT TEACHING & SEMINAR (PRE-K-1)****Credits (Min/Max): 6/6**

This course provides teacher candidates with the opportunity to incorporate the various strategies and techniques learned from the methods courses to implement effective instruction for all learners at the PreK-1st grade level. Under the direct supervision of a cooperating teacher and a college supervisor, the student teacher will have the opportunity to teach in all the subject areas and demonstrate the instructional practices and methods related to the developmental level of their students, based on a standards aligned system. The student teacher will return to the college for additional support on topics such as creating a positive learning environment, encouraging parent involvement, and using community resources as part of the student teaching seminars.

PreRequisites: EDEL4060 - INTEGRATING CURRICULUM & INSTRUCTION

**EDEL4065**

**STUDENT TEACHING & SEMINAR (2-4)**

**Credits (Min/Max): 6/6**

This course provides the teacher candidate with the opportunity to incorporate the various strategies and techniques learned from the methods courses to implement effective instruction for all learners at the 2nd-4th grade level. Under the direct supervision of a cooperating teacher and a college supervisor, the student teacher will have the opportunity to present lessons based on PA academic standards and assessment anchors in a variety of subject areas and will assume the full teaching load by the end of the five week placement. The student teacher will return to the college for additional support on topics such as differentiated instruction as part of the student teaching seminars.

PreRequisites: EDEL4060 - INTEGRATING CURRICULUM & INSTRUCTION

**EDML2010**

**ML TEACHING SCIENCE METHODS-LAB**

**Credits (Min/Max): 1/1**

This course is required for all middle level education majors. The course will focus on how to use an inquiry approach to teach science in the 4th-6th grade levels, with an emphasis on how to address the Pennsylvania Academic Standards and Assessment Anchors for Science & Technology and Environment & Ecology. A field experience is a required component of this course.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

**EDML2023**

**ML TEACHING MATHEMATICS METHODS -LAB**

**Credits (Min/Max): 1/1**

This course is required for all middle level education majors. The course will focus on how to use a learner based approach to teach math in the 4th-6th grade levels, with an emphasis on how to address the Pennsylvania Academic Standards and Assessment Anchors for Mathematics. A field experience is a required component of this course.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

**EDML3010**

**DEVELOPING READING COMMUNITIES**

**Credits (Min/Max): 3/3**

This course engages students in a study of the relationship between literacy and community by examining a range of "reading communities," including historical, school-based, professional, neighborhood, workplace, and recreational communities. Key issues will include: how communities use literacy and literacy practices, how literacy practices define and shape communities, how literacy practices draw and transcend boundaries between communities, and how new literacies transform older communities and create new kinds of communities.

**EDML3013**

**MIDDLE LEVEL TEACHING SOCIAL STUDIES METHODS LAB**

**Credits (Min/Max): 1/1**

This course is required for all middle level education majors. The course will focus on how to present social studies concepts in a hands-on manner to 4th-6th grade students, with an emphasis on how to address the Pennsylvania Academic Standards for Geography, History, Economics, and Civics & Government. A field experience is a required component of this course.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

**EDML3050**

**READING & WRITING ACROSS THE DISCIPLINES**

**Credits (Min/Max): 3/3**

Reading and Writing Across the Disciplines introduces a wide variety of effective instructional methods for middle level and secondary teachers to present reading and writing skills in any content area.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**EDML4010**

**ADVANCED TEACHING METHODS FOR MIDDLE LEVEL TEACHING CERTIFICATION**

**Credits (Min/Max): 2/2**

This course is required for all middle level education majors, in order to prepare for student teaching. Future middle level teachers will explore ways to engage students in the learning process, with a focus in the content areas at the 7th and 8th grade level. Future teachers will plan lessons and units based on content standards and assessment anchors. The use of technology will also be explored as a way to enhance instruction and assessment. A field experience is a required component of this course.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

**EDML4050**

**ML STUDENT TEACHING (GRADES 4-6)**

**Credits (Min/Max): 6/6**

During this portion of student teaching, middle level education majors will be placed in a 4th-6th grade setting, and may be expected to teach any subject area (science, mathematics, language arts, or social studies) for approximately seven weeks. Student teachers will be expected to demonstrate instructional strategies that capitalize on the developmental characteristics of young adolescents and to design successful interventions responsive to the needs of individual middle level students. Student teachers will be supervised by a cooperating teacher and a college supervisor, and will be expected to participate in collaborative team building opportunities. Part of the student teaching experience will also include an on campus student teaching seminar, where topics such as certification requirements, school law, and interviewing strategies will be presented.

PreRequisites: EDML4010 - ADVANCED TEACHING METHODS FOR MIDDLE LEVEL TEACHING CERTIFICATION

#### **EDML4055**

##### **ML STUDENT TEACHING (GRADES 7-8)**

**Credits (Min/Max): 6/6**

During this portion of student teaching, middle level education majors will be placed in a 7th-8th grade setting within their content specialty (science, mathematics, language arts, or social studies) for approximately seven weeks. Student teachers will be expected to demonstrate their deep content knowledge as they apply instructional strategies that capitalize on the developmental characteristics of young adolescents and to design successful interventions responsive to the needs of individual middle level students. Student teachers will be supervised by a cooperating teacher and a college supervisor, and will be expected to participate in collaborative team building opportunities. Part of the student teaching experience will also include an on campus student teaching seminar, where topics such as certification requirements, school law, and interviewing strategies will be presented.

PreRequisites: EDML4010 - ADVANCED TEACHING METHODS FOR MIDDLE LEVEL TEACHING CERTIFICATION

#### **EDSP2015**

##### **INTRO TO HIGH INCIDENCE DISABILITIES, ACCOMODATIONS, & ADAPTATIONS**

**Credits (Min/Max): 3/3**

This course provides students an opportunity to explore foundations of special education in the United States including: characteristics of each disability category, legislation, over-representation of diverse students, academic and functional needs of students with disabilities, individual learning differences, least restrictive environment, implications for a Standards Aligned System, collaboration and transition. Students will develop an understanding of Accommodations and Adaptations for inclusive environments.

#### **EDSP2025**

##### **LEARNING ENVIRONMENTS, CLASSROOM & BEHAVIOR**

**Credits (Min/Max): 3/3**

This course will introduce students to behavior and misbehaviors of students in the school setting, types of misbehavior roles, establish a classroom management plan that will reflect their consideration of students with disabilities, problem solving, conflict resolution, assessing appropriate and problematic behaviors while establishing opportunities for students with diverse backgrounds to interact and share in cooperative learning groups, problem solving to achieve common goals. "Application Models" will be the framework used to demonstrate the approaches used by pioneers as well as 21st century researchers and educators.

PreRequisites: EDSP2015 - INTRO TO HIGH INCIDENCE DISABILITIES, ACCOMODATIONS, & ADAPTATIONS

#### **EDSP3015**

##### **INTRO TO LOW INCIDENCE DISABILITIES**

**Credits (Min/Max): 3/3**

This course is designed to prepare students with the skills necessary to effectively teach individuals with severe disabilities, identify the relationships of organizations to school systems, laws and policies that are related to the implementation of specialized health care in the educational setting, and demonstrate the knowledge and understanding of individuals so as to develop effective instructional plans that will contribute to effective programs.

#### **EDSP3025**

##### **EFFECTIVE INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH DISABILITIES**

**Credits (Min/Max): 3/3**

The Instructional Strategies Course identifies and implements instructional strategies for all individuals with disabilities by evidenced-based methods, specialized resources, multiple instructional approaches, appropriate adaptations and technology, integrating student initiated learning opportunities and experiences into ongoing instruction. Teach learning strategies and modify the pace of instruction within and across curricula, demonstrate efficient differentiated instruction, efficient planning, coordination, and delivery for effective instruction required for inclusive settings.

PreRequisites: EDSP2015 - INTRO TO HIGH INCIDENCE DISABILITIES, ACCOMODATIONS, & ADAPTATIONS

#### **EDSP3035**

##### **SPECIALIZED INSTRUCTIONAL PLANNING**

**Credits (Min/Max): 3/3**

The focus of this field experience course is to prepare the perspective student teacher with an authentic encounter of teaching special education prior to their actual placement. The student will participate in a special education classroom for eight (8) - five (5) hour sessions, create a weekly journal, develop meaningful lessons plans, prepare an observational case study, create a summative portfolio, and be responsible for the various forms. The major emphasis of the class will concentrate on providing the student with a realistic experiential comprehension of special education in the school age setting.

PreRequisites: EDSP2015 - INTRO TO HIGH INCIDENCE DISABILITIES, ACCOMODATIONS, & ADAPTATIONS

**EDSP3040**

**EVALUATION & AUTHENTIC ASSESSMENT WITHIN A STANDARDS ALIGNED SYSTEM**

**Credits (Min/Max): 3/3**

This required course for all education majors will explore the instructional purposes for a variety of assessment strategies, such as: authentic, screening, diagnostic, formative, benchmark, and summative assessments. Future teachers will learn how to interpret assessment data, such as standardized test scores and norms, and will practice how to communicate assessment results to educational stakeholders, while considering legal and ethical issues related to assessment data, such as maintaining confidentiality. Future teachers will also create sample assessments that target academic standards and assessment anchors within subject areas, in order to measure mastery of the curriculum in more than one way.

PreRequisites: EDUC1010 - INTRO TO EDUCATION & FIELD

**EDSP4015**

**DEVELOPMENT OF THE IEP & INCLUSION IN LEAST RESTRICTIVE ENVIRONMENTS**

**Credits (Min/Max): 3/3**

The focus of this culminating course is to prepare the student teacher with a realistic overview of teaching special education in Pennsylvania. The student will create an IEP, become familiar with Inclusion and collaboration, write reflections based on current issues/trends in special education, participate in discussions, create useful artifacts, discuss significant court cases, and understand Transition. The student will also comprehend the special education continuum of services available to the identified student.

PreRequisites: EDSP2015 - INTRO TO HIGH INCIDENCE DISABILITIES, ACCOMODATIONS, & ADAPTATIONS

**EDSP4051**

**STUDENT TEACHING-SPECIAL EDUC EDUCATION**

**Credits (Min/Max): 6/6**

The student teaching and/or Project experience is a supervised experience in an appropriate educational setting. This multi-week experience includes observation and teaching by the student and guidance and mentoring by both the teacher in the setting and the college supervisor. No course work may be taken during the student teaching experience unless approved by the Director of the Center for Teacher Education.ions.

PreRequisites: EDSP4010 - ADVANCED SEMINAR

**EDSP4065**

**SPECIAL ED STUDENT TEACHING & SEMINAR**

**Credits (Min/Max): 6/6**

The EDSP 451 Student Teaching Course is designed to allow students an opportunity to apply skills learned in professional practice, human development, learning environments, instructional strategies, instructional planning, diversity, adaptations and accommodations, collaboration, behavior management, assessment and transition in a supervised field based experience. Under the supervision of a school district cooperating teacher(s) and the La Roche faculty, the student will design, implement and evaluate teaching experiences in many settings. Students will prepare and present lessons that appropriately address the IEP goals and meet the State Standards. Student teachers will demonstrate skills that include, but are not be limited to, differentiated instruction, universal design, collaborative teaching, transition planning and research based data driven instruction to meet the needs of all students.

PreRequisites: EDSP4015 - DEVELOPMENT OF THE IEP & INCLUSION IN LEAST 3

**EDUC1010**

**INTRO TO EDUCATION & FIELD EXPERIENCE**

**Credits (Min/Max): 3/3**

The purpose of this course is to serve as an introduction to the teaching profession. Students will explore the qualifications for becoming an effective teacher, and will observe classroom teachers across grade levels. Current trends and conditions of education will also be studied. A field experience is a required component of the course.

**EDUC4054**

**PRIMARY STUDENT TEACHING**

**Credits (Min/Max): 6/6**

This course provides the student with the opportunity to incorporate the various strategies and techniques gleaned from the methods courses into a primary elementary classroom, or an early childhood setting under the direct supervision of a cooperating teacher and the college supervisor. The student will have the opportunity to teach all subject areas and assume the full teaching load for part of this experience. *No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.*

**EDUC4055**

**INTERMEDIATE STUDENT TEACHING**

**Credits (Min/Max): 6/6**

This course provides the student with the opportunity to incorporate the various strategies and techniques gleaned from the methods courses into an elementary classroom, or an early childhood setting under the direct supervision of a cooperating teacher and the college supervisor. The student will have the opportunity to teach all subject areas and assume the full teaching load for part of this experience. The student will have two eight-week placements during this experience - both a primary and an intermediate replacement will be assigned for the elementary student. Pre-school and elementary experiences will be required of the early childhood student. **No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.**

#### **EDUC4057**

##### **EDUCATION-INDEPENDENT STUDY**

**Credits (Min/Max): 1/12**

An independent study is an in-depth examination of a particular topic, under the supervision of a qualified instructor. Independent study is not a substitute for a formal course or graduation requirement. The course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area.

#### **ELED4020**

##### **METHODS OF TEACHING SCIENCE & HEALTH**

**Credits (Min/Max): 3/3**

This course will provide the pre-service elementary teacher with strategies and techniques for teaching the content subjects - specifically science and health. Emphasis will be on organizing subject matter and translating it to children through the students' participation in various methods of learning. An integral part of this course will be field experience in an elementary classroom with a content teacher.

PreRequisites: EDUC2010 - FOUNDATIONS OF EDUCATION & FIELD EXPERIENCE

#### **ELED4040B**

##### **TEACHING MATH PRACTICUM**

**Credits (Min/Max): 2/2**

This course provides a weekly-supervised field placement practicum and seminar based on the Methods of Teaching Math Course. The student will be assigned a small group of children in which the college student will be required to diagnose the childrens needs and then create and implement plans that focus on the diagnosis found.

PreRequisites: ELED4040 - METHODS OF TEACHING MATH

#### **ELED4052**

##### **INTEGRATING TECHNOLOGY IN THE ELEMENTARY CURRICULUM**

**Credits (Min/Max): 3/3**

In the final stages of preparing students to enter the teaching profession, this course offers the student the opportunity to gain insights into the philosophy and objectives of the elementary school, as well as study classroom organization, materials, and instructional strategies that can be used in teaching the various subject areas of the elementary school. This course will also explore and offer the students techniques to effectively manage student behavior and solve discipline problems. This course will enable students to discern appropriate forms of technology that meet with unit and lesson objectives and curriculum standards, and thus enhance one's procedural materials. Students will have opportunities to gain a comprehensive repertoire of technological resources to later implement and utilize in planning lessons across the curriculum and creating student resources, in the form of text, visual, and web-based materials.

PreRequisites: EDUC2010 - FOUNDATIONS OF EDUCATION & FIELD EXPERIENCE

#### **ELED4054**

##### **PRIMARY STUDENT TEACHING**

**Credits (Min/Max): 6/6**

This course provides the student with the opportunity to incorporate the various strategies and techniques gleaned from the methods courses into a primary elementary classroom, or an early childhood setting under the direct supervision of a cooperating teacher and the college supervisor. The student will have the opportunity to teach all subject areas and assume the full teaching load for part of this experience. **No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.**

#### **ELED4055**

##### **INTERMEDIATE STUDENT TEACHING**

**Credits (Min/Max): 6/6**

This course provides the student with the opportunity to incorporate the various strategies and techniques gleaned from the methods courses into an elementary classroom, or an early childhood setting under the direct supervision of a cooperating teacher and the college supervisor. The student will have the opportunity to teach all subject areas and assume the full teaching load for part of this experience. The student will have two eight-week placements during this experience - both a primary and an intermediate replacement will be assigned for the elementary student.

Pre-school and elementary experiences will be required of the early childhood student. **No course work may be taken during the student teaching semester unless approved by the Director, Center for Teacher Education.**

#### **ENED3010**

##### **METHODS OF TEACHING & EVALUATING ENGLISH**

**Credits (Min/Max): 3/3**

This course is designed to give the student a broad background in literature for children from pre-school through seventh grade, to explore assumptions that form the basis of what is the best literature for children, to practice creative projects designed to encourage and enrich reading, and to evaluate children's literature as an image-maker and means of transmitting values.

**ENED3013**  
**CHILDREN'S LITERATURE**  
**Credits (Min/Max): 3/3**

This course is designed to give the student a broad background in literature for children from pre-school through 7th grade, to explore assumptions that form the basis of what is the best literature for children, to practice creative projects designed to encourage and enrich reading, and to evaluate children's literature as an image-maker and means of transmitting values.

PreRequisites: ENGL1011 - COLLEGE WRITING I

**ENED3030**  
**LITERATURE OF ADOLESCENTS & YOUNG ADULTS**  
**Credits (Min/Max): 3/3**

This course is designed to give the prospective middle and/or high school English teacher a familiarity with the literature adolescents choose to read, enjoy, and find relevant to their lives. It will present the reasons why teenage readers make the choices that they do and review sources of materials teenagers will read with pleasure. It is also presented to help the prospective professional educator develop a positive attitude toward this kind of literature.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENED3051**  
**ADVANCED FIELD EXPERIENCE**  
**Credits (Min/Max): 3/3**

In this course, you will learn and apply the definition, components, principles, and strategies of effective classroom management. In addition, you will explore the topics that contribute to developing a positive learning environment for students. These topics include: diversity, motivation theories and strategies, brain-based learning, planning physical spaces, instructional strategies, and assessment. A data and reflection driven 25 hour field experience will be completed in local district classrooms. The final project includes the development of a portfolio reflecting the range of campus and field-based experiences. A rubric will guide you through this process.

**ENGL1010**  
**PRACTICUM:COLLEGE READING & WRITING**  
**Credits (Min/Max): 6/6**

This course is designed to prepare college freshmen for reading and writing at the college level.

**ENGL1011**  
**COLLEGE WRITING I**  
**Credits (Min/Max): 3/3**

This course engages students in the reading and writing practices essential to academic life by requiring students to read both with and against the grain of complex texts and to write in response to them.

**ENGL1011H**  
**COLLEGE WRITING I-HONORS**  
**Credits (Min/Max): 3/3**

This course engages students in the reading and writing practices essential to academic life by requiring students to read both with and against the grain of complex texts and to write in response to them. As this is an Honors course, the schedule of reading and writing assignments is more challenging than the standard composition course in terms of both pace and content. In keeping with the Honors curriculum guidelines, this course also integrates one or more elements of the La Roche College mission (Global, Intercultural, or Social Justice focus) into its core reading and writing objectives.

**ENGL1011L**  
**COLLEGE WRITING-LAB**  
**Credits (Min/Max): 0/0**

This mandatory course supports College Writing I, emphasizing on-demand timed writing, revision, and control of error.

**ENGL1012**  
**COLLEGE WRITING II**  
**Credits (Min/Max): 3/3**

This course is designed to teach concise and effective expository writing, focusing on various aspects of critical analysis and the documented research paper.

PreRequisites: ENGL1011 - COLLEGE WRITING I



**ENGL1012H**  
**COLLEGE WRITING II-HONORS**  
**Credits (Min/Max): 3/3**

This course engages students in the reading and writing practices essential to academic life by requiring students to read both with and against the grain of complex texts and to write in response to them. As this is an Honors course, the schedule of reading and writing assignments is more challenging than the standard composition course in terms of both pace and content. In keeping with the Honors curriculum guidelines, this course also integrates one or more elements of the La Roche College mission (Global, Intercultural, or Social Justice focus) into its core reading and writing objectives.

PreRequisites: ENGL1011 - COLLEGE WRITING I

**ENGL1050**  
**METHODS OF TEACHING WRITING: COMPOSITION**  
**Credits (Min/Max): 1/1**

This is the first in a series of four one-credit courses designed to prepare students to teach academic writing at the secondary or post-secondary levels and/or to work in a secondary or college writers center.

**ENGL2010**  
**INTRO TO LITERARY STUDY**  
**Credits (Min/Max): 3/3**

This seminar introduces students majoring in each of the three English programs to the study of literature as an academic discipline. Key literary terms and concepts (genre, style, figurative language, poetics, etc.), central tenets of literary-critical analysis (multiple interpretive strategies, schools of theory, etc.), and basic methodologies of literary study (research techniques, MLA-style documentation, etc.) will be covered. The course will thus prepare English majors at an early point in their careers to enter into the habits of thought and practice characteristic of their chosen field.

PreRequisites: ENGL1011 - COLLEGE WRITING I

**ENGL2012**  
**AMERICAN ETHNIC LITERATURE**  
**Credits (Min/Max): 3/3**

A study of writing about American ethnicity. Readings usually include essays, poems, plays and prose fiction.

**ENGL2021**  
**WORLD LITERATURE I(SLLT1002)**  
**Credits (Min/Max): 3/3**

A study of selected works in a variety of genres centered primarily around major literary movements from antiquity through the Renaissance. Cross-listed with SLLT1002

PreRequisites: ENGL1011 - COLLEGE WRITING I

**ENGL2022**  
**WORLD LITERATURE II(SLLT1010)**  
**Credits (Min/Max): 3/3**

A study of selected works in a variety of genres centered primarily around major literary movements from the Renaissance through contemporary literature. Cross-listed with SLLT1010

PreRequisites: ENGL1011 - COLLEGE WRITING I

**ENGL2029**  
**BUSINESS COMMUNICATIONS**  
**Credits (Min/Max): 3/3**

A study of and practice in writing of business reports and letters of various types, including resumes and letters of application. The course includes practice in oral reports, conferences, job interviews and other situations, both written and oral, in which effective communication is required.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL2030**  
**TECHNICAL WRITING**  
**Credits (Min/Max): 3/3**

Designed to apply the basic principles of communication to technical information so that the student can learn to present complex technical messages in the clearest possible way.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL2036**  
**ISSUES IN AMERICAN LIT I (SLLT1013)**  
**Credits (Min/Max): 3/3**

Literature from Puritan times up to the Civil War will be examined as it portrays such issues as responses to a new environment, ecology, ethnic and sexual stereotyping, literature as didactic message or entertainment, ethical choice, pessimistic and optimistic views of human nature. The course will also introduce basic technical elements for each genre used by American authors. Cross-listed with SLLT1013

PreRequisites: ENGL1011 - COLLEGE WRITING I

**ENGL2039**  
**ISSUES IN AMERICAN LIT II (SLLT1011)**  
**Credits (Min/Max): 3/3**

Literature from the time of the Civil War to Post World War II will be examined as it portrays such issues as our pluralistic society, war, death, characters caught in a limiting environment, responses to the age of anxiety, protest, evolving attitudes toward male and female identity and relationships, ethical responsibility, disenchantment, reconciliation and the celebration of the human potential. The course will also introduce basic technical elements of each genre used by American authors. Cross-listed with SLLT1011

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL2040**  
**CREATIVE WRITING I**  
**Credits (Min/Max): 3/3**

A course designed to stimulate creative writing in prose and poetry with emphasis upon the short story.

**ENGL2043**  
**FILM ANALYSIS:FORM,HIST,IDEOLOGY**  
**Credits (Min/Max): 3/3**

This course will introduce students to the terminology, methodologies, and practice of cinematic analysis. We will approach films as complex, multi-layered texts that can be viewed through diverse, intersecting lenses; beginning with an examination of the form principles of film, we will progress to a consideration of film as historical, cultural, and ideological product, one that both shapes and is shaped by the beliefs and practices of the cultures in which it is generated. Class time will be divided between film viewing and film analysis, the ultimate purpose of the course being to prepare students to become active, critical viewers of film.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL2045**  
**NATIVE AMERICAN LITERATURE**  
**Credits (Min/Max): 3/3**

In this class, we will read selected works of Native American literature (Including political writing, oral literature, autobiography, and contemporary fiction), as well as selected critical works that raise questions about the primary texts: questions of form, definition, and so on. The course is not a survey; though we'll be reading a good number of texts, I've made no attempt to cover the "whole" range of Native American literatures. Not only is that impossible, but the very idea of wholeness is problematic in my eyes, particularly (as we will see) when discussing texts that fall under a heading so historically and theoretically troubles as that of "Native American literatures". What we will do in the class, instead, is employ particular texts as occasions for reflection, discussion, and debate. In this way, each student will have experienced enough of the range, complexity, and significance of Native American literatures to explore the field independently after the class comes to an end.

**ENGL2050**  
**WRITER'S CENTER; METHODS OF TEACHING WRITING**  
**Credits (Min/Max): 1/1**

This is the second in a series of four one-credit courses designed to prepare students to teach academic writing at the secondary or post-secondary levels and/or to work in a secondary or college writers' center. This course addresses one-on-one and small group tutorial work in a writers' center.

**ENGL3011**  
**READINGS IN CONTEMPORARY NON-FICTION**  
**Credits (Min/Max): 3/3**

This course will introduce you to the genre of creative contemporary American nonfiction, sometimes called literary journalism. This course will engage you in reading and responding to an array of creative nonfiction works, ranging from newspaper articles, to magazine pieces, to book-length works. This course will provide you with a broad understanding and practical exposure to the craft of contemporary American creative nonfiction. The course is intended as the first step in a two-step sequence that will provide students with the skills needed to produce their own creative nonfiction works, with publication of those works as their ultimate goal. The intent of this course is to support, complement and augment other established courses in the curriculum, primarily Journalism I and II, Advanced Exposition, Writing Creative Contemporary Nonfiction, and Creative Writing.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3012**  
**SPECIAL TOPICS IN COMPOSITION**  
**Credits (Min/Max): 3/3**

These topics courses are writing workshops designed to allow students to write in a particular genre and/or for a designated audience with the support of a publishing writer and the other members of the workshop.

**ENGL3014**  
**WORLD MYTHOLOGY**  
**Credits (Min/Max): 3/3**

A study of myths and mythic patterns in literature from a variety of cultures. Because of the vast quantity of literature involving mythology, the course emphasizes certain themes or patterns, for example, the journey of the hero or heroine, patterns of transformation and mythic motifs.

**ENGL3015**  
**STUDIES IN LITERATURE(SLLT1015):**  
**Credits (Min/Max): 3/3**

**THEATER IN THE CITY:** Theater in the City is a six-week summer course, which meets on Tuesdays on campus and sees a play on Thursday at one of the city's many theaters. Summer 2012 the planned selections are Noel Coward's "Private Lives" (Pittsburgh Public Theater); Lee Hall's "The Pitman Painters" (Irish and Classical Theater); Maggie Kate Coleman's "Pop" (City Theater); Frank Floyd Hightower's "The House That Carol Built" (Kuntu Repertory Theater); and August Wilson's "Gem of the Ocean" (Pittsburgh Playwrights at the August Wilson Theater). Cross-listed with SLLT1015 **WOMEN IN LITERATURE:** This course explores the novel as it has been practiced by women writers and examines specific contributions they have made to the novel. It is particularly appropriate to study women writers in the context of the novel form, since historically the rise of the novel occurs concurrently with the emergence of women writers. Each novel will be considered individually as well as in relation to its larger cultural context and to the other novels under study. Authors generally include Mary Wollstonecraft, Virginia Woolf, Kate Chopin, Charlotte Perkins Gilman, Jean Rhys, Alice Walker, Toni Morrison, Amy Tan, Sue Monk Kidd, Linda Hogan, and Katherine Stockett. Cross-listed with SLLT1015 Topics from world literature involving various literary genres and themes. Possible semester topics include: Black Literature, Contemporary Literature, Women in Literature, and Biblical Themes in Literature. PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3015B**  
**CONTEMPORARY LITERATURE (SLLT1008)**  
**Credits (Min/Max): 3/3**

This course is designed to introduce non-majors to the principles of literary and cultural criticism through the study of a range of prose fiction from the last thirty years of the 20th Century. The focus of the course is to identify and interpret the thematic and stylistic interests of Western and non-Western contemporary fictions from the period, paying special attention to the various ways of understanding or seeing (cultural, political, and psychological) which different cultures bring to the production of literature. By examining, discussing, and writing about these works, students will gain specific insight into a rapidly globalizing literary aesthetic as well as an understanding of modern critical literary analysis. *Cross-listed with SLLT1008*

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3017**  
**IRISH LITERATURE**  
**Credits (Min/Max): 3/3**

A study of Irish literature from Ancient Gaelic times, through the Irish Renaissance and up to contemporary times. Readings, in English, involve a variety of genres: myths, sagas, lyric poems, plays and short stories. Specific authors include Synge, Yeats, Lady Gregory, Joyce, O'Casey, and Kate O'Brien.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3018**  
**DRAMATIC LITERATURE**  
**Credits (Min/Max): 3/3**

A study of the principal types of drama consisting of plays selected from ancient to contemporary times and representing a variety of cultures, usually Greek, English, American, Irish, Russian, and Spanish. Dramatic theory and criticism will be examined and critical writing about drama will be taught.

**ENGL3019**  
**MODERN AMERICAN DRAMA**  
**Credits (Min/Max): 3/3**

A study of selected plays of 20th century American dramatists, from the 1920's to the present. Plays studied include those of O'Neill, Williams, Albee, Miller, Hellman, Kushner, Wilson & Hansberry. The plays are studied as drama and as literature.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3020**  
**MODERN AMERICAN NOVEL**  
**Credits (Min/Max): 3/3**

A study of major novels from the rise of realism to the present. The course focuses on the work of such established writers as Fitzgerald, Faulkner and Steinbeck, but may include some fiction by contemporary writers.

**ENGL3021**  
**SHAKESPEARE ON FILM(SLLT1003)**

**Credits (Min/Max): 3/3**

This course is designed to introduce non-majors to literary study through viewing film adaptations of Shakespeare and reading the printed texts. By examining the relationship between the texts of the play and their film interpretations, students will examine and analyze dramatic genres central to literary study, including tragedies, comedies, histories and romances. Cross-listed with SLLT1003

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3022**  
**DEVELOPMENT OF ENGLISH NOVEL**

**Credits (Min/Max): 3/3**

A study of the novel from its beginnings: selected writings demonstrate the development of the novel as an art form, usually including works of Fielding, Austen, Thackeray, C. Bronte, E. Bronte, Dickens, Hardy, Lawrence and Joyce.

**ENGL3023**  
**SHAKESPEARE**

**Credits (Min/Max): 3/3**

The reading and analysis of Shakespearean drama. Plays studied usually include: A Midsummer Night's Dream, Richard II, Measure for Measure, Henry IV, Much Ado About Nothing, As You Like It, Twelfth Night, Othello, King Lear, Macbeth and The Winter's Tale.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3024**  
**LOVE&WAR OLD&MEDIEVAL ENG LIT**

**Credits (Min/Max): 3/3**

Literary works are selected from the genres of epic, romance, lyric and ballad. Selections may vary but usually include: Beowulf, Troilus and Cressida, Tristan and Isolde, Sir Gawain and the Green Knight, and The Canterbury Tales.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3025**  
**RENAISSANCE ENGLISH POETRY**

**Credits (Min/Max): 3/3**

A study of the non-dramatic poetry of Sidney, Spenser, Shakespeare, Marlowe, Donne, Jonson, Herbert, Marvell, Vaughan and short poems of Milton.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3027**  
**NINETEENTH CENTURY BRITISH POETRY**

**Credits (Min/Max): 3/3**

A survey of the romantic poetry of Burns, Blake, Wordsworth, Coleridge, Byron, Shelley and Keats; and of the Victorian poetry of Tennyson, Browning, Arnold, the Rossettis, Clough, Hopkins and Hardy.

**ENGL3028**  
**EARLY 20th CENTURY BRITISH LIT**

**Credits (Min/Max): 3/3**

A study of British literature written during the first half of the twentieth century. Novels and poems studied usually include the works of Conrad, Forster, Woolf, Bowen, Yeats, Eliot, Joyce, Owens and Thomas.

**ENGL3029**  
**LITERARY THEORY & CRITICISM**

**Credits (Min/Max): 3/3**

This course will introduce advanced students to literary theory and contemporary methods of literary criticism and research.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3031**  
**JOURNALISM I**

**Credits (Min/Max): 3/3**

An introductory course in journalistic style and a variety of formats. Students learn editing, interviewing and reporting skills.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3032****JOURNALISM II****Credits (Min/Max): 3/3**

An advanced study of diverse journalistic formats: feature writing, broadcast writing and specialized reporting, e.g., business, sports, government. Emphasis is placed on journalistic ethics, responsibility and the law.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3033****AMERICAN ENG:ITS HIST&DEVELOPMT****Credits (Min/Max): 3/3**

A study of the linguistic evolution of the American English language from the older stages of English to current usage in the United States.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3034****WRITING FOR ADVERTISING****Credits (Min/Max): 3/3**

A course designed to sharpen the student's writing skills in the context of copy writing for advertising. It will provide extensive practice in writing copy that appeals to a variety of audiences.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3035****WRITING FOR TV & RADIO****Credits (Min/Max): 3/3**

A course designed to give students practice in the writing of copy for the broadcast media. Included is the writing of news and sports reports, commercials, features and documentaries, interview techniques, and mini-dramas.

**ENGL3037****ADVANCED EXPOSITION****Credits (Min/Max): 3/3**

An advanced course in essay writing with emphasis on improving writing style. Methods include an examination of professional writings, frequent written assignments, detailed criticism of student's papers and evaluation of revisions to increase writing flexibility and precision.

**ENGL3039****U.S. LABOR HISTORY & LIT (HIST3039):SPECIAL TOPICS IN LITERATURE****Credits (Min/Max): 3/3**

This course investigates American Labor, from colonial day to the present, from both historical and literay perspective.*Cross-listed with HIST3039*

**ENGL3040****TEACHING LITERATURE I: METHODS OF TEACHING****Credits (Min/Max): 1/1**

This first in a two-part sequence of one-credit courses begins the process of preparing students to teach literature at the secondary school level. Students enrolled in these courses will simultaneously be enrolled in a 200-level literature survey; the courses will provide occasion for reflection on and work with the materials and methodologies of the teaching of literature. The sequence thus provides a foundation for theoretical and practical fluency that will be enhanced throughout the English Education curriculum, culminating in Methods of Teaching English and in the Student Teaching experience.

**ENGL3041****TEACHING LITERATURE II: METHODS OF TEACHING ENGLISH****Credits (Min/Max): 1/1**

This second in a two-part sequence of one-credit courses begins the process of preparing students to teach literature at the secondary school level. Students enrolled in these courses will simultaneously be enrolled in a 200-level literature survey; the courses will provide occasion for reflection on and work with the material and methodologies of the teaching of literature. The sequence thus provides a foundation for theoretical and practical fluency that will be enhanced throughout the English Education curriculum, culminating in Methods of Teaching English and in the Student Teaching experience.

**ENGL3042****WRITING FOR NON-PROFITS****Credits (Min/Max): 3/3**

This course is designed to teach the basic principles of public relations and grant writing for non-profit organizations. It will combine theory and practice, discussing all the key public relations vehicles, including news releases, press kits, brochures, newsletters, annual reports, direct mail, advertising, the Internet, fund raising, and special events planning.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3045**  
**FICTION WRITING WORKSHOP**  
**Credits (Min/Max): 3/3**

This special topics course enables students to develop the craft of fiction-writing. Subjects to be covered include audience, point of view, characterization, world-building, story arc, dialogue, editing/revising, and publication. Students will develop works of fiction with the support of a publishing writer and the other members of the workshop, and will be provided guidance in submitting polished works for possible publication.

**ENGL3047**  
**THEATER IN THE CITY (SLLT1029)**  
**Credits (Min/Max): 3/3**

This course is designed to teach students the basic components of theater, and to experience various plays being performed in Pittsburgh. It will also examine the history of many of the local theaters in the city. Cross-listed with SLLT1029

**ENGL3050**  
**GENRE; METHODS OF TEACHING**  
**Credits (Min/Max): 1/1**

This is the third in a series of four one-credit courses designed to prepare students to teach academic writing at the secondary or post-secondary levels and/or to work in a secondary or college writers' center.

**ENGL3051**  
**PUBLICATION DESIGN(GCDN3051)**  
**Credits (Min/Max): 3/3**

Intended for prospective designers as well as writers, the course will educate students in newspaper graphics and design. Hands-on experience will require participation in the La Roche Courier. Students will review and redesign the existing paper, and regularly participate with editorial illustration and photography, ad layout, design and production. Students will achieve an understanding of print production, including the utilization of four-color process and offset printing. Cross-listed with GCDN3051

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL3062**  
**CONTEMPORARY LITERATURE (SLLT1008)**  
**Credits (Min/Max): 3/3**

This course is designed to introduce non-majors to the principles of literary and cultural criticism through the study of a range of prose fiction from the last thirty years of the 20th Century. The focus of the course is to identify and interpret the thematic and stylistic interests of Western and non-Western contemporary fictions from the period, paying special attention to the various ways of understanding or seeing (cultural, political, and psychological) which different cultures bring to the production of literature. By examining, discussing, and writing about these works, students will gain specific insight into a rapidly globalizing literary aesthetic as well as an understanding of modern critical literary analysis. Cross-listed with SLLT1008

PreRequisites: ENGL1011 - COLLEGE WRITING I

**ENGL4040**  
**SPECIAL TOPIC IN LITERATURE (SLLT1012)**  
**Credits (Min/Max): 3/3**

The "Select Literature" designation covers a range of courses with varying content or "subject" matter but with the common objective of providing non-majors with an opportunity to learn the fundamental principles of literary analysis. Cross-listed with SLLT1012

PreRequisites: ENGL1011 - COLLEGE WRITING I

**ENGL4050**  
**SEQUENCING & ASSESSMENT; METHODS OF TEACHING WRITING**  
**Credits (Min/Max): 1/1**

This is the fourth in a series of four one-credit courses designed to prepare students to teach academic writing at the secondary or post-secondary levels and/or to work in a secondary or college writers' center.

**ENGL4051**  
**ENGLISH-INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institution to which the student is assigned.

**ENGL4052**  
**ENGLISH-INTERNSHIP II**  
**Credits (Min/Max): 1/6**

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institution to which the student is assigned.

**ENGL4055**

**SENIOR SEMINAR**

**Credits (Min/Max): 3/3**

A review of methods of research, documentation and critical practice employed in literary scholarship, appropriate selected readings, oral and written presentation of a seminar paper and class evaluation of each paper presented. Students should have completed 18 English credits beyond ENGL1012 to be eligible.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**ENGL4056**

**RESEARCH IN ENGLISH STUDIES**

**Credits (Min/Max): 2/4**

Individual investigation in the student's field of interest carried out under the supervision of a faculty member. The student is responsible for defining a problem, planning a course of investigation and reporting the results in a critical paper accompanied by an annotated bibliography.

**ENGL4057**

**ENGLISH-INDEPENDENT STUDY**

**Credits (Min/Max): 0/6**

Individual study course that is supervised by a full-time faculty member.

**ESLN0086**

**LOW BEGINNING READING++**

**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Novice-High" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

**ESLN0087**

**LOW BEGINNING WRITING++**

**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire writing skills in English as a Second Language at the "Novice-High" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

**ESLN0088**

**LOW BEGINNING SPEAKING++**

**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire speaking skills in English as a Second Language at the "Novice-High" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

**ESLN0089**

**LOW BEGINNING GRAMMAR++**

**Credits (Min/Max): 4/4**

This course is a part of a proficiency-based language program designed to provide maximum opportunities for students to acquire the grammar skills necessary to read, write, and speak and understand English as a Second Language at the "Novice-High" level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

**ESLN0090**

**HIGH BEGINNER READING++**

**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

PreRequisites: ESLN0086 - LOW BEGINNING READING++

**ESLN0091****HIGH BEGINNER WRITING++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

PreRequisites: ESLN0087 - LOW BEGINNING WRITING++

**ESLN0092****HIGH BEGINNER SPEAKING++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

PreRequisites: ESLN0088 - LOW BEGINNING SPEAKING++

**ESLN0093****HIGH BEGINNER GRAMMAR++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

PreRequisites: ESLN0089 - LOW BEGINNING GRAMMAR++

**ESLN0094****HIGH BEGINNER LISTENING++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Low" to "Intermediate-Mid" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). The course does not apply toward college graduation credit requirements.

**ESLN0100****LOW INTERMEDIATE READING++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of reading skills.

PreRequisites: ESLN0090 - HIGH BEGINNER READING++

**ESLN0101****LOW INTERMEDIATE WRITING++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of reading skills.

PreRequisites: ESLN0091 - HIGH BEGINNER WRITING++

**ESLN0102****LOW INTERMEDIATE SPEAKING++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of reading skills.

PreRequisites: ESLN0092 - HIGH BEGINNER SPEAKING++



**ESLN0103****LOW INTERMEDIATE GRAMMAR++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of reading skills.

PreRequisites: ESLN0093 - HIGH BEGINNER GRAMMAR++

**ESLN0104****LOW INTERMEDIATE LISTENING++****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop listening skills in English as a Second Language at the "Intermediate-Mid" to "Intermediate-High" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). Students will increase their listening skills through practice with prepared listening texts, dialogs, discussions on related topics, experiences with native English speaking guest speakers and internet and multimedia resources.

PreRequisites: ESLN0094 - HIGH BEGINNER LISTENING++

**ESLN0105****HIGH INTERMEDIATE READING++****Credits (Min/Max): 4/4**

This course is a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of the following reading skills: (1) using context clues to guess word meanings; (2) understanding the main ideas of paragraphs and essays with some structural complexity; (3) skimming for main ideas; (4) scanning for specific information; (5) understanding inference and restatement; (6) reading paragraphs and essays for detailed understanding.

PreRequisites: ESLN0100 - LOW INTERMEDIATE READING++

**ESLN0106****HIGH INTERMEDIATE WRITING++****Credits (Min/Max): 4/4**

This course is a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of the following reading skills: (1) using context clues to guess word meanings; (2) understanding the main ideas of paragraphs and essays with some structural complexity; (3) skimming for main ideas; (4) scanning for specific information; (5) understanding inference and restatement; (6) reading paragraphs and essays for detailed understanding.

**ESLN0107****HIGH INTERMEDIATE SPEAKING++****Credits (Min/Max): 4/4**

This course is a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of the following reading skills: (1) using context clues to guess word meanings; (2) understanding the main ideas of paragraphs and essays with some structural complexity; (3) skimming for main ideas; (4) scanning for specific information; (5) understanding inference and restatement; (6) reading paragraphs and essays for detailed understanding.

PreRequisites: ESLN0102 - LOW INTERMEDIATE SPEAKING++

**ESLN0108****HIGH INTERMEDIATE GRAMMAR++****Credits (Min/Max): 4/4**

This course is a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language readings, intensive study of vocabulary, and the development of the following reading skills: (1) using context clues to guess word meanings; (2) understanding the main ideas of paragraphs and essays with some structural complexity; (3) skimming for main ideas; (4) scanning for specific information; (5) understanding inference and restatement; (6) reading paragraphs and essays for detailed understanding.

PreRequisites: ESLN0103 - LOW INTERMEDIATE GRAMMAR++

**ESLN0120**  
**HIGH INTERMEDIATE LISTENING++**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop listening skills in English as a Second Language at the "Intermediate-High" to "Advanced" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). Students will increase their listening skills through practice with prepared and authentic listening texts, dialogs, discussions on related topics, listening and note taking activities, experiences with native English speaking guest speakers and internet and multimedia resources..

PreRequisites: ESLN0104 - LOW INTERMEDIATE LISTENING++

**ESLN1009**  
**ADVANCED READING**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced" to "Advanced-Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

**ESLN1010**  
**ADVANCED WRITING**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced" to "Advanced-Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

**ESLN1011**  
**ADVANCED SPEAKING**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced" to "Advanced-Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

PreRequisites: ESLN0107 - HIGH INTERMEDIATE SPEAKING++

**ESLN1012**  
**ADVANCED STRUCTURES OF ACADEMIC ENGLISH**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced" to "Advanced-Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

PreRequisites: ESLN0108 - HIGH INTERMEDIATE GRAMMAR++

**ESLN1013**  
**INTENSIVE READING**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced-Plus" to "Superior" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

**ESLN1014**  
**INTENSIVE WRITING**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced-Plus" to "Superior" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

**ESLN1015**  
**INTENSIVE SPEAKING**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire reading skills in English as a Second Language at the "Advanced-Plus" to "Superior" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS).

**ESLN1030****ADVANCED LISTENING****Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop listening skills in English as a Second Language at the "Advanced" to "Advanced Plus" levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Services (ETS). Students will increase their listening skills through practice with prepared and authentic listening texts, discussions on related topics, academic listening and note taking activities, experiences with native English speaking guest speakers and internet and multimedia resources.es..

PreRequisites: ESLN0120 - HIGH INTERMEDIATE LISTENING++

**ESLN4057****ENGLISH SECOND LANG INDEP STUDY****Credits (Min/Max): 1/4**

Independent study for non-native speakers of English who have demonstrated a commitment to further study of English writing skills and techniques and/or English reading skills and vocabulary. The student will complete independent study in conjunction with the appropriate ESL faculty.

**FINC3031****INVESTMENTS****Credits (Min/Max): 3/3**

An analysis of securities and a study of principles of governing the management of investment assets in light of relevant economic factors.

PreRequisites: ACCT2004 - ACCOUNTING II

**FINC3032****FINANCIAL MANAGEMENT****Credits (Min/Max): 3/3**

An analytical study of external sources and processes of financing. Financial analysis tools, short-and long-term financing, divided policy and capital budgeting are examined.

PreRequisites: ACCT2004 - ACCOUNTING II

**FINC3034****COMMERCIAL BANK MANAGEMENT****Credits (Min/Max): 3/3**

This course incorporates a financial framework for students to view banking as a participant in the evolving financial services industry.

PreRequisites: FINC3032 - FINANCIAL MANAGEMENT

**FINC3036****FINANCIAL INSTITUTIONS****Credits (Min/Max): 3/3**

This course will provide for an understanding of the various types of financial institutions that exist and operate in the American economy. Their relationship and activities in the international environment will also be addressed.

**FINC3040****RISK MANAGEMENT AND INSURANCE****Credits (Min/Max): 3/3**

Identifying and analyzing risk and managing it through insurance and alternative tools are integral to the overall risk management plans of individuals and firms.

PreRequisites: FINC3032 - FINANCIAL MANAGEMENT

**FINC4033****MANAGERIAL FINANCE****Credits (Min/Max): 3/3**

An advanced course in corporate finance. Case studies utilized to describe a series of decisions facing the corporate managers of domestic and multinational firms as they assess the value of various investment and financial strategies. Practical and conceptual issues facing managers in large and small firms are addressed.

PreRequisites: FINC3032 - FINANCIAL MANAGEMENT

**FINC4039****REAL ESTATE FINANCE****Credits (Min/Max): 3/3**

This course provides the basics of real estate financial analysis including legal instruments, financing residential properties, income-producing properties, real estate development, institutional sources of funds and the secondary mortgage market.

**FINC4051**  
**FINANCE-INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A field experience in a finance position, supervised by a field instructor as well as college faculty. The internship is designed to increase understanding of finance and the finance-related issues and perspectives as they relate to the business environment.

**FINC4052**  
**FINANCE-INTERNSHIP II**  
**Credits (Min/Max): 1/3**

A field experience in a finance position, supervised by a field instructor as well as college faculty. The internship is designed to increase understanding of finance and the finance-related issues and perspectives as they relate to the business environment.

**FVMA1001**  
**MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)**  
**Credits (Min/Max): 3/3**

Motion Picture Fundamentals is a hands-on introduction to key photographic concepts and the core concepts of self-expression with moving images. Students shoot photographs, digital video and motion picture film to learn the basic principles and techniques of light, composition, camerawork, editing and storytelling. All equipment is provided, including 35mm still cameras, mini-DV video cameras, super 8-film cameras and digital works stations with Apple's Final Cut Express editing program. Those unfamiliar with MAC OS should consider taking "Introduction to Digital" prior to or concurrent with this course. Students pay for film, videotape, and lab costs. Grading is based on student projects and written exams. In addition to tuition, a \$70 course fee is charged by PFM. Please note that there are three variations on this course, each with a slightly different emphasis. Motion Picture Fundamentals: Film and Digital Video gives equal weight to filmmaking and to digital video. In the Filmmaking Emphasis section, students work more film than digital video and the Digital Video Emphasis section, students work with more digital video than film. However, students are exposed to all media in all sections.

**FVMA1004**  
**INTERNATIONAL FILM HISTORY (PITTSBURGH FILMMAKERS-FLM104)**  
**Credits (Min/Max): 3/3**

This course puts into perspective the birth, development, and evolution of the foreign film, concentrating on the influence of political, literary and theatrical traditions, culture and Hollywood on film art from individual nations. Topics covered will include technical and stylistic advances in the German and French silent cinemas, the theory and practice of montage in Soviet films, French cinema of the 1930's, Italian neo-realism, the auteur theory, films of the new wave and contemporary European, Asian and third world cinemas. Grading is based on written exams, class participation and attendance at screenings. In addition to tuition, a \$35 course fee is charged by PFM.

**FVMA1006**  
**FILM PRODUCTION I (PITTSBURGH FILMMAKERS-FLM106)**  
**Credits (Min/Max): 3/3**

This course is designed to develop proficiency in the standard procedures of filmmaking and the use of equipment. Students participate in shooting two 16mm films, editing and building soundtracks. Basic aspects of cinematography, lighting, sound and editing are covered, including the use of 16mm camera, sound equipment and digital editing software (Final Cut Pro). Student projects are viewed and critiqued in class. Outside work is necessary for planning shooting, and editing. All equipment is provided, but students pay for their own film and lab expenses. Grading is based on each student's films, exams on technical basics and class participation. In addition to tuition, a \$70 course fee is charged.

PreRequisites: FVMA1001 - MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)

**FVMA1007**  
**ELEMENTS OF FILM (PITTSBURGH FILMMAKERS-FLM107)**  
**Credits (Min/Max): 3/3**

This course is an introduction to the critical viewing and understanding of film as an art form. Students learn the vocabulary necessary to analyze film. The function of various film elements is discussed and examples are shown in class from narrative feature films, animation, documentaries and experimental films. Students develop the skills necessary to view, appreciate, understand and discuss film as a complex art, capable of multiple modes of expression and meaning. Grading is based on written exams, homework, and attendance. Outside viewing may be required. In addition to tuition, a \$35 course fee is charged.

**FVMA1010**  
**INTRO TO FILM THEORY & CRITICISM (PITTSBURGH FILMMAKERS-FLM110)**  
**Credits (Min/Max): 3/3**

This course examines the major aesthetic and theoretical issues encountered in film theory and practice. In this introduction to film criticism, students will examine aesthetic and cultural issues as a background to film theory, study the major figures and issues in the field and make connections to related media and cultural analysis. The course will be organized as a reading and lecture experience. Readings should be done in advance and brought to class. The lectures will provide a broad background for the reading, discussing some particular points from the readings in detail. Grading is based on one written exam, one written analysis and class participation. In addition to tuition, a \$35 course fee is charged by PFM.

**FVMA1025****INTRO TO DIGITAL EDITING (PITTSBURGH FILMMAKERS-DIG112)****Credits (Min/Max): 3/3**

This course is designed to familiarize students with the possibilities that digital technology offers for the manipulation of still images, sound and motion pictures. After introducing beginners to the Macintosh Operation System, the course allows students to use Final Cut Pro to edit video and sound and Photoshop to manipulate still images and text. Access to Macintosh computers with the necessary software is provided. Grading is based on assignments, a written exam and class participation. In addition to tuition, a \$70 course fee is charged by PFM.

**FVMA1035****ACTING FOR THE CAMERA (PITTSBURGH FILMMAKERS-FLM241)****Credits (Min/Max): 3/3**

This course is designed for actors who would like to improve their craft by better understanding the differences between acting for the stage and acting for the camera, and for film and television directors who would like to work more effectively with actors. Contrasts between stage and screen acting in specific shooting scripts are examined and followed with appropriate script study, character analysis and practical experience in working before a camera. Course requirements include outside reading, preparation and rehearsal of scenes for taping in class, outside viewing of film and television programs and written analyses of performances. Grading is based on performance, effort and written analysis. In addition to tuition, a \$35 course fee is charged.

**FVMA1042****BASIC DIGITAL PHOTOGRAPHY (PITTSBURGH FILMMAKERS-PHT120)****Credits (Min/Max): 3/3**

This class introduces students to the fundamentals of photographic art using digital imaging techniques. Working with digital cameras, Macintosh computers and Epson ink-jet printers, students will complete a number of assignments that emphasize camera controls, print quality, composition and subject matter. Class lectures and demonstrations will cover exposure, quality of light, the use of Light Room for digital file management, image manipulation and digital printing. The class will also be exposed to the work of contemporary and historical photographers. Students should have their own camera; a few digital SLRs will be available for use during the semester. Grading is based on assignments, written exams and a final portfolio. In addition to tuition, a \$70 course fee is charged by PFM.

**FVMA2014****SOUND FOR FILM & VIDEO (PITTSBURGH FILMMAKERS-FLM235)****Credits (Min/Max): 3/3**

Students in this class create quality soundtracks that complement the visual tracks of a film or video. Lectures and in-class exercises help students' record clear, high-quality location audio by increasing their understanding of microphone characteristics and techniques, audio recorders and the recording process. Post-production techniques, including digital audio editing and mixing, are also covered. Grading is based on written exams, practical exercises, assignments and class participation. In addition to tuition, a \$70 course fee is charged by PFM.

**FVMA2025****TECHNICAL DIRECTING (PITTSBURGH FILMMAKERS-FLM225)****Credits (Min/Max): 3/3**

Basics of designing and directing scenes for motion pictures are addressed in this course. Some of the problems discussed include the relationship of film to reality, the meaning of cinematic techniques, continuity, shot selection, cut selection and visualization techniques. The format is a combination of lecture, screening, and interactive group exercises. Students participate in analyzing and reworking scenes from well-known films. Extensive outside work is necessary, including attending current films, to discuss directorial issues. Grading is based on written exams, practical exercises, homework and class participation. In addition to tuition, a \$35 course fee is charged.

PreRequisites: FVMA1001 - MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)

**FVMA2028****INTRO TO SCREENWRITING (PITTSBURGH FILMMAKERS-FLM228)****Credits (Min/Max): 3/3**

As an introduction to writing for film and video, this course combines theory, analysis and practical exercise. Screenwriting basics are covered including story, structure, scene, character, dialogue and action. Students develop stories, scenes and characters and examine the ways in which these elements can be combined in a screenplay. Writing for documentaries is also discussed. Students are required to see selected current films for discussion. Considerable outside work is necessary. Grading is based on the quality of the writing assignments and class participation. In addition to tuition, a \$35 course fee is charged by PFM.

**FVMA2030****VIDEO PRODUCTION I (PITTSBURGH FILMMAKERS-VID115)****Credits (Min/Max): 3/3**

In this hands-on course students acquire the skills to design, shoot and edit video. The class combines demonstrations, lecture, exercise, projects and critiques. Emphasis is placed on visual and aural expression through technical mastery of the video medium. Topics include digital camera operations, lighting, audio recording, scripting, non-linear editing, special effects and audio mixing. Students are expected to focus on designing and producing an effective final project. Grading is based on written exams. All necessary equipment is provided but students must supply videotape. In addition to tuition, a \$70 course fee is charged by PFM.

PreRequisites: FVMA1001 - MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)

**FVMA2035****ANIMATION PRODUCTION (PITTSBURGH FILMMAKERS-FLM204)****Credits (Min/Max): 3/3**

This comprehensive class in frame-by-frame animation is designed for both beginners and seasoned animators. Students are exposed to a wide variety of media and approaches, such as digital 2D, hand-drawn 2D, clay cutouts, puppets, time-lapse and pixilation. With an overview of animation history and technique, students will gain an understanding of the principles of animation along with foundations of production planning. This includes storyboarding, character development, acting and story elements. While drawing is one approach to animation, this is not a cartooning class, and drawing skills are not required in order to succeed. Students may work together as a production team or as individual producers. Considerable outside work is necessary for preparation of production elements, shooting an editing. All equipment is provided but students pay for their own art supplies and media expenses. Grading is based on assignments, participation, exercises and final films. In addition to tuition, a \$70 course fee is charged by PFM.

PreRequisites: FVMA1001 - MOTION PICTURE FUNDAMENTALS (PITTSBURGH FILMMAKERS-FLM101)

**FVMA2040****PHOTOSHOP FOUNDATIONS (PITTSBURGH FILMMAKERS-PHT220)****Credits (Min/Max): 3/3**

An introduction to the Macintosh Operating System and Adobe Photoshop, this class helps students explore digital imaging as a method for manipulating and presenting their work. Techniques covered include scanning, image retouching, correction and manipulation, printing and creative use of layers, selections, and masks. Assignments include restoration, digital colorizing of black and white imagery and digital color printing. Grading is based on class participation, assignments and individual projects. In addition to tuition, a \$70 course fee is charged by PFM.

**FVMA2045****ELECTRONIC CINEMATOGRAPHY (PITTSBURGH FILMMAKERS-VID317)****Credits (Min/Max): 3/3**

This course will cover advanced video technology and professional techniques of videography. Emphasis will be placed on image quality, meeting and broadcast specifications for video and audio, and double-system audio recording. Professional-quality video cameras will be covered extensively. Grading will be based on written exams, in-class production exercises, and an oral presentation. Though students will be asked to shoot video in class, this is not a production course; the cost of materials will be included in the \$70 course fee is charged by PFM.

PreRequisites: FVMA2030 - VIDEO PRODUCTION I (PITTSBURGH FILMMAKERS-VID115)

**FVMA2048****WRITING & PRODUCING THE SHORT SCRIPT (PITTSBURGH FILMMAKERS-FLM308)****Credits (Min/Max): 3/3**

This course is designed to take students through the process of writing and planning a short film. Students will produce a film treatment and then multiple drafts of a script for a film, as well as work through critical phases of pre-production such as budgeting, creating a shooting script, storyboarding, casting, securing locations and acquiring necessary permissions and clearances. Students are expected to participate in critiquing and responding to the written work of others in the class. Significant outside work is required. Grading is based on the quality of the script, the quality of the pre-production work and materials, and class participation. In addition to tuition, a \$35 course fee is charged by PFM.

PreRequisites: FVMA2028 - INTRO TO SCREENWRITING (PITTSBURGH FILMMAKERS-FLM228)

**FVMA2050****FILM GENRE: TELEVISION HORRORS (PITTSBURGH FILMMAKERS-FLM270)****Credits (Min/Max): 3/3**

This course serves as a critical examination of the aesthetics and history of the horror genre as a television phenomenon. The course samples key examples of television horror, drawing from early broadcast shows like Alfred Hitchcock Presents and The Twilight Zone, examining more overtly horrific offerings such as Tales From The Crypt and tracking the genre's evolution into more contemporary series like the groundbreaking Buffy the Vampire Slayer and current cable offerings True Blood and The Walking Dead. Students analyze the style and forms of narrative particular to television while considering the historical and industrial changes in televisual horror that have resulted in strong female-centered series and provocative representations of race, gender and sexuality. The course will be a combination of lecture and discussion with required reading and in-class screenings of excerpts and episodes. Grading is based on two written exams, one analytical paper and participations. In addition to tuition a \$35 course fee is charged by PFM.

**FVMA2051****FILM GENRE: VIOLENCE IN AMERICAN CINEMA (PITTSBURGH FILMMAKERS-FLM270)****Credits (Min/Max): 3/3**

This course will consider the multi-faceted implications of onscreen violence for American popular culture. Through close examinations of recent films such as The Girl with the Dragon Tattoo and Django Unchained, students will explore perennial controversies regarding the influence of movie violence on behavior. The class will consider the ways in which these pervasive violent images shape our understanding of social issues like race, gender and sexuality. Much of our focus will be on American films of the past 10 years, but we will also study significant global and historical trends in depictions of screen violence and spectators' reactions to that violence, from disgust to pleasure. Topics will include Surrealist cinema, genre films (horror, westerns, etc.) and video games. Grading is based on class participation, weekly writing assignments and a final paper. In additions to tuition, a \$35 course fee is charged by PFM.

**FVMA2056****SCRIPT DEVELOPMENT (PITTSBURGH FILMMAKERS-FLM307)****Credits (Min/Max): 3/3**

Geared for those who have an understanding of basic screenwriting principles, this class helps students develop an original idea into a full treatment. Weekly discussions and assignments focus on creating the plot, sub plots, character biographies and back story. Other elements examined extensively in this class are the scene, sequences and the setting of the story. Students are required to complete a 5 page scene-by-scene treatment of their original work. Considerable outside work is required. Grading is based on weekly assignments, the quality of the written treatment and class participation. In addition to tuition, a \$35 course fee is charged by PFM.

PreRequisites: FVMA2028 - INTRO TO SCREENWRITING (PITTSBURGH FILMMAKERS-FLM228)

**FVMA2065****LIGHTING FOR FILM & VIDEO (PITTSBURGH FILMMAKERS-FLM234)****Credits (Min/Max): 3/3**

In order to demystify the problems involved in lighting for motion pictures, students participate in a variety of lighting and shooting situations. Among the topics covered are: the differences between lighting for film and for video, light sources, light metering, lighting styles and tools. Excerpts from classic and contemporary films and videotapes are viewed and discussed. Students are encouraged to show their current or previous work in class for the purpose of addressing lighting issues. Grading is based on written exams, homework and participation. In addition to tuition, a \$70 course fee is charged.

**FVMA2070****DIGITAL EFFECTS & COMPOSITING (PITTSBURGH FILMMAKERS-DIG345)****Credits (Min/Max): 3/3**

This course covers digital methods of combining video, photographs, graphics, text and other visual elements and manipulation of those elements to tell a story. Most work will be done using Adobe AfterEffects, but the course will include other software such as Adobe Photoshop and Illustrator. Topics include gaining an understanding of the structure of digital images, transparency and masking, chroma keying, using layers and depth, keyframe animation, image processing, effects and their use, formats, input and output of imagery and workflow methods. Grading is based on assignments, exam and class participation. In addition to tuition, a \$70 course fee is charged by PFM.

PreRequisites: FVMA2030 - VIDEO PRODUCTION I (PITTSBURGH FILMMAKERS-VID115)

**FVMA2080****BLACK & WHITE PHOTOGRAPHY I (PITTSBURGH FILMMAKERS-PHT111)****Credits (Min/Max): 3/3**

Designed to give an awareness and understanding of the technical and aesthetic aspects of photography as a fine art, this is a practical and theoretical course. Through a series of lectures and labs, students learn the process of seeing (making an exposure) and craftsmanship (making a photographic print). Some shooting assignments include using depth of field, light as subject, the self portrait and portraiture. 35mm cameras for this class are available for checkout at the equipment office. Students are expected to purchase their own film and photographic paper. Grading is based on assignments, written exams and a final portfolio. In addition to tuition, a \$70 course fee is charged by PFM.

**FVMA2130****CINEMATOGRAPHY (PITTSBURGH FILMMAKERS-FLM233)****Credits (Min/Max): 3/3**

This course examines the tools and technology of the cinematographer. Cameras, lenses, light meters, sensitometry, emulsions, light sources, color, printing and the film laboratory are among the topics covered. The format is a combination of lecture, screening and hands-on exercise. Students participate in group shooting sessions, and are encouraged to show their current and previous work in class for the purpose of addressing issues of cinematography. Grading is based on written exams, shooting exercises and participation. In addition to tuition, a \$70 course fee is charged for PFM.

**FVMA2250****PORTRAIT PHOTOGRAPHY (PITTSBURGH FILMMAKERS-PHT210)****Credits (Min/Max): 3/3**

This class explores the emotional and visual process of collaboration between subject and photographer that create a photographic portrait. Student use a variety of cameras and formats in both the studio and on location. Available light and the use of artificial light are explored to complete each student's vision, along with a wide range of processing strategies to support and add richness to the final work. Through film and video the class is introduced to some of the masters of this form like Diane Arbus, Arnold Newman, Richard Avedon and Irving Penn. Through field trips to exhibitions and photographer's studios, students are introduced to original work and local photographers. Grading is based on assignments, class participation and the final portfolio. In addition to tuition, a \$70 course fee is charged by PFM.

PreRequisites: FVMA1042 - BASIC DIGITAL PHOTOGRAPHY (PITTSBURGH FILMMAKERS-PHT120)

**FVMA3015****DOCUMENTARY PRODUCTION (PITTSBURGH FILMMAKERS-VID320)****Credits (Min/Max): 3/3**

This course guides students through the planning, shooting, and editing of a documentary. The course builds on production skills common to all video and filmmaking by introducing techniques unique to non-fiction film, such as verité (observational) shooting, interviewing and using archival material. The class will confront the ethical issues that arise when real people are presented on screen. Throughout the course, we will view and analyze recent documentaries, with the aim of understanding how reality can be captured and shaped in cinematically powerful ways. Students have the option of working with the news outlet PublicSource to produce research-based video for the website [publicsource.org](http://publicsource.org) or may choose any form of documentary for their final projects. Grading is based on practical exercises, a written exam, a final project and class participation. In addition to tuition, a \$70 course fee is charged.

#### **FVMA3020**

##### **ADVANCED DIGITAL EDITING TECHNIQUES (PITTSBURGH FILMMAKERS-DIG315A)**

**Credits (Min/Max): 3/3**

In this course, students will explore the possibilities of digital post-production. Lectures will discuss a variety of editing styles and examples from short and feature-length films. Students will work with advanced digital editing software to develop proficiency in editing techniques, simple effects, color corrections, sound design, as well as output options for variety of platforms. Grading is based on assigned editing projects, student presentations, and participation. In addition to tuition a \$70 course fee is charged.

#### **FVMA3025**

##### **THE ART & BUSINESS OF VOICE-OVER NARRATION (PITTSBURGH FILMMAKERS-FLM130)**

**Credits (Min/Max): 3/3**

This intensive course is designed for people who would like to pursue a career as a trained voice actor. The class covers all the aspects of creating professional voice recordings as well as creating a successful business plan and marketing yourself as a voice talent. Initially, students analyze existing voice-over narrations, finding material best suited for their own voice and recording a finished demo. Class demos involve vocal warm-ups, microphone techniques and breaking down scripts in order to make the copy suit each individual student. Other topics include picking a studio, an engineer and an agent, packaging your demo and finding work. Grading is based on assignments, class participation and the finished demo. In addition to tuition a \$35 course fee is charged by PFM.

#### **FVMA3030**

##### **VIDEO PRODUCTION II (PITTSBURGH FILMMAKERS-VID212)**

**Credits (Min/Max): 3/3**

This course challenges students to explore video language while producing a more ambitious work through improved technical skills, including digital modes of post-production. It integrates hands-on demonstrations, lecture, exercises, projects and critiques. Students use digital video camera along with Final Cut Pro to produce a final project. Topics include advanced lighting and audio recording, digitizing, non-linear editing, time code, digital auto mixing, and final output. Grading is based on the quality of work produced and performance on written exams. All necessary equipment is provided but students must supply videotape. In addition to tuition, a \$70 course fee is charged.

Prerequisites: FVMA2030 - VIDEO PRODUCTION I (PITTSBURGH FILMMAKERS-VID115)

#### **FVMA3034**

##### **PRODUCING FOR FILM & VIDEO (PITTSBURGH FILMMAKERS-FLM334)**

**Credits (Min/Max): 3/3**

This course explores sound, sound recording and the production of short works of audio of radio broadcast and podcast. Sound productions can be experimental pieces, NPR-type documentaries, enhanced readings, personal profiles, radio drama or comedy. Each production will have the qualities of a "soundscape": a rich, multi-layered work that provides the listener with a powerful, evocative experience. The course begins with a thorough exploration of sound itself-what it is, how it behaves, and how humans perceive it. Students will then learn how to make high quality digital sound recordings in a variety of environments. Finally, extensive work will be devoted to managing, editing and manipulating sound files using Audacity and Apple's Soundtrack Pro. The finished product will be a podcast ready file and an original CD. All final productions meeting baseline standards will be broadcast on local radio. Grading is based on assignments, one exam and class participation. In addition to tuition, a \$70 course fee is charged.

#### **FVMA4051**

##### **FILM, VIDEO & MEDIA-INTERNSHIP I**

**Credits (Min/Max): 1/6**

Advanced students wishing to pursue careers in media production are encouraged to seek internships through Pittsburgh Filmmakers. The program is designed to give students valuable work experience in their chosen field outside of the classroom environment. Film and video students have interned with local production companies, television stations, feature films and media artists; photography students have been placed with freelance photographers, agencies, publications and curators. Students work with the internship Coordinator to find a suitable position before registering for the internship course.

#### **FVMA4057**

##### **FILM/VIDEO/MEDIA-INDEPENDENT STUDY**

**Credits (Min/Max): 1/3**

Advanced students may elect to study film or video production, photography, or digital media on an independent basis by: 1) securing the permission of the instructor with whom you wish to study; 2) writing a preliminary proposal for your independent study; 3) discussing your proposal with your instructor and finalizing it by completing an independent study contract. In addition to tuition, a \$70 course fee is charged.



**GCDN1023**  
**DRAWING I(IDSN1023)**  
**Credits (Min/Max): 3/3**

A study-workshop in the language of drawing, including practice in expression and communication in various media utilizing principles of line, tone, gesture, exaggeration and lighting. Cross-listed with IDSN1023

**GCDN1025**  
**FUND. OF ELECTRONIC PUBLISHING**  
**Credits (Min/Max): 3/3**

This course will prepare students not majoring in graphic design to work in a creative team environment toward the production of digital communication materials and graphics, and will introduce students to the web as a design vehicle for publishing and advertising.

**GCDN1060**  
**FOUNDATION DESIGN I(IDSN1060)**  
**Credits (Min/Max): 3/3**

An introductory course in the creative process, the principles of design and elements of art, which are fundamental to all two and three dimensional design pursuits. Studio projects will explore the relationship between concept and execution, with emphasis on the principles of design and the elements of line, shape, value, texture, form and space. This course will emphasize the link between foundation design and digital technology by requiring at least one project using the computer and appropriate software. Cross-listed with IDSN1060

**GCDN1062**  
**FOUNDATION DESIGN II(IDSN1062)**  
**Credits (Min/Max): 3/3**

An extension of the study of issues initiated in GCDN1060 Foundation Design I, with the addition of new areas of inquiry. Student skills will be expanded and refined in such formal visual concerns as color systems, historical style conventions, spatial systems, optical illusions, and manipulation of form. Cross-listed with IDSN1062

PreRequisites: GCDN1060 - FOUNDATION DESIGN I(IDSN1060)

**GCDN1070**  
**COMPUTER GRAPHICS I**  
**Credits (Min/Max): 3/3**

This course will explore the theories and techniques presented in Foundation Design I, build upon that knowledge, and apply it to traditional graphic design projects. The course will be an introduction to raster image creation, manipulation and production using professional, industry-standard software. Students will use the computer as a tool to render and create original imagery. The projects will introduce students to the process and professional practice of graphic design.

**GCDN1071**  
**COMPUTER GRAPHICS II**  
**Credits (Min/Max): 3/3**

This course will explore the theories and techniques presented in Foundation Design II, build upon that knowledge, and apply it to traditional graphic design projects. The course will be an introduction to vector image creation, manipulation and production using professional, industry-standard software. Students will use the computer as a tool to render and create original imagery. The projects will introduce students to the process and professional practice of graphic design.

PreRequisites: GCDN1070 - COMPUTER GRAPHICS I

**GCDN1080**  
**WEB GRAPHICS I**  
**Credits (Min/Max): 3/3**

This course will prepare students not majoring in Graphic & Communication Design to understand, create and edit correct image types that can be used for web sites. The class will explore design theories specific to web design while introducing software applications specific to creating still images for web sites.

**GCDN2005**  
**DIGITAL FINE ARTS(SLAE1003)**  
**Credits (Min/Max): 3/3**

This course is intended to provide an opportunity to explore Mac computer art. The students will experience the computer studio process of creating art in relevant software, using a digital camera to manipulate images and final image animation. The effect of styles, techniques and art movements on computer images will be explored. Attention will be given to archival inks and paper. Lecture and video will provide an introduction to the new and brief history of electronic images. Cross-Listed with SLAE1003

**GCDN2008**  
**DIGITAL PUBLISHING**  
**Credits (Min/Max): 3/3**

The study of image and type layout, utilizing professional industry software. This course will focus on the integration of type and image through various page layout solutions and will build upon previous studies in image generation.

PreRequisites: GCDN1060 - FOUNDATION DESIGN I(IDSN1060)

**GCDN2010**  
**GRAPHIC DESIGN METHODOLOGIES**  
**Credits (Min/Max): 3/3**

This course will explore, define and analyze the thinking strategies utilized in the profession of graphic design. Creative exercises, brainstorming and ideation models, information gathering, research projects and collaborative work will help students to understand and practice the processes and problem-solving strategies by which intelligent design solutions are reached.

PreRequisites: GCDN1060 - FOUNDATION DESIGN I(IDSN1060)

**GCDN2011**  
**PAINTING-PASTELS & WATERCOLORS**  
**Credits (Min/Max): 3/3**

This class will introduce the student to the techniques and methods of watercolor & pastel. The course places primary emphasis on the handling of the media.

**GCDN2012**  
**TYPOGRAPHY I**  
**Credits (Min/Max): 3/3**

This course introduces students to the basics of typography as the backbone of Graphic Design. By studying the anatomy of a letterform, typographic history, classifications, typeface recognition, hierarchy and terminology, students learn to organize typographic compositions and systems in order to communicate intellectual and expressive meaning. Students explore the typographic form through both hand-rendered and digital mediums using industry standard software.

PreRequisites: GCDN1060 - FOUNDATION DESIGN I(IDSN1060)

**GCDN2016**  
**DIGITAL PHOTOGRAPHY**  
**Credits (Min/Max): 3/3**

This course will explore digital capture and handling of photographs enabling the student to master the technical aspects of digital image capture. Students will learn techniques for editing and enhancing photographs, become familiar with photography's various roles: art form, journalism, advertising and will produce a portfolio of quality color and black and white prints from digital files.

**GCDN2021**  
**GRAPHIC DESIGN I**  
**Credits (Min/Max): 3/3**

This course investigates design principles and concepts, incorporating them into the foundations of graphic design. The student is introduced to the language and processes used to achieve effective graphic design. Through investigation of core graphic design principles, concept development, language and processes; students explore both formal and expressive techniques for successful and effective integration of image and type.

PreRequisites: GCDN1062 - FOUNDATION DESIGN II(IDSN1062)

**GCDN2029**  
**INTERACTIVE I**  
**Credits (Min/Max): 3/3**

Students will be introduced to design fundamentals and practices as they relate to digital mediums. This course will focus on HTML/CSS standards-based design. Students will learn to separate content (using Hypertext markup language) from appearance (using Cascading Style Sheets) in order to design effective communication that enhances the user experience. Importance will be placed on evolving technologies and languages, site compatibility on a variety of devices and browsers and effective design fundamentals for digital mediums.

PreRequisites: GCDN1070 - COMPUTER GRAPHICS I

**GCDN2038**  
**ILLUSTRATION**  
**Credits (Min/Max): 3/3**

This course places an emphasis on thorough experimentation of image-making techniques including hand, digital and a combination of those. It will provide students with an in-depth knowledge of current and past illustrators and give them skills to create concept-based imagery. Emphasis is placed on communicating specific messages to targeted audiences in order to understand the relationship between Illustration and Graphic Design.

PreRequisites: GCDN1023 - DRAWING I(IDSN1023)

**GCDN2040****WORD & IMAGE****Credits (Min/Max): 3/3**

An in-depth study of the symbiotic relationship between words and images and the importance of integrating text with visual information to achieve professional results. Emphasis will be placed on the juxtaposition of image and text in order to produce coherent design. Problems will focus on concept generation and problem solving.

**GCDN2047****PHOTOGRAPHIC LIGHTING TECHNIQUES****Credits (Min/Max): 3/3**

This course will explore various aspects of portrait and product photography, making extensive use of lighting technique and equipment in an examination of both natural and artificial lighting environments. The course is intended to provide additional tools, techniques and insights into image production and development for the Graphic Design and Communication Design major.

PreRequisites: GCDN2016 - DIGITAL PHOTOGRAPHY

**GCDN2080****WEB GRAPHICS II****Credits (Min/Max): 3/3**

This course will prepare students not majoring in Graphic & Communication Design to understand, create and edit correct advanced image and animations that can be used for web sites. The class will explore design theories specific to web design while introducing software applications specific to creating motion images for web sites.

**GCDN3010****WRITING & PRESENTING FOR DESIGNERS(IDSN3010)****Credits (Min/Max): 3/3**

This course will explore various writing techniques that are specific to the fields of Graphic & Communication Design and Interior Design and will include: copy and headlines, press releases, web page texts, television & radio commercial messages, design briefs and presentation notes. Students will learn effective ways to make presentations to clients in both individual and creative team situations, as well as practice their ability to articulate design concepts to an audience. In addition to being beneficial to Graphic Design and Interior Design students, the course could be offered to marketing, information systems technology and other programs beginning in the fall of 2010. Cross-listed with IDSN3010

PreRequisites: ENGL1012 - COLLEGE WRITING II

**GCDN3016****HISTORY OF FILM(ARTH3016)****Credits (Min/Max): 3/3**

The course attempts to make the student more aware of the medium as well as its place in the development of our culture. While the approach is historical, emphasis is placed upon development of the student's visual literacy. Additionally, important topics such as censorship and film propaganda are discussed. Cross-listed with ARTH3016

**GCDN3022****TYPOGRAPHY II****Credits (Min/Max): 3/3**

Further development of the ideas, techniques and principles studied in GCDN2012. Emphasis is placed on polishing and advancing basic typography skills through the study of typography in publication design, i.e., multiple page design as it relates to layouts for books, booklets, brochures and magazines. Format and design for continuity is stressed.

PreRequisites: GCDN2021 - GRAPHIC DESIGN I

**GCDN3024****PROFESSIONAL PRESENTATION****Credits (Min/Max): 3/3**

This course is designed to provide students in the professional areas with training in preparing and giving professional presentations. Students will develop skills in audience/client assessment, research, presentation design and development, using presentation tools and presentation evaluation.

**GCDN3026****DIGITAL PREPRESS & PRINTING****Credits (Min/Max): 3/3**

This course investigates the electronic preparation of images and files for print publications.

PreRequisites: GCDN3031 - GRAPHIC DESIGN II

**GCDN3029****ADVANCED WEB DESIGN****Credits (Min/Max): 3/3**

Advanced Web Design continues to concentrate on the principles of design, development, and implementation of web-based solutions. Students in this class will focus primarily on the strategic efforts of constructing entire websites from the ground up - working individually and as part of a team.

**GCDN3031**  
**GRAPHIC DESIGN II**  
**Credits (Min/Max): 3/3**

This course will focus on information organization and complex hierarchies, in order to reach conceptually and aesthetically sophisticated design solutions. Particular emphasis will be placed on research, investigation, rigorous brainstorming and organizing a large quantity of information in order to reach content-heavy, visually-engaging solutions. Prereq: Successful completion of Mid-Collegiate Review.

PreRequisites: GCDN2021 - GRAPHIC DESIGN I

**GCDN3041**  
**GRAPHIC DESIGN III**  
**Credits (Min/Max): 3/3**

With an emphasis on communication and advanced design problems, this course will focus on the development of clear, appropriate, dynamic and efficient branding through a systems approach to design. It will begin with the detailed study of the brand and brand identity, and culminate in the development of an integrated branding program. A high degree of conceptual, aesthetic and technical ability will be required for successful completion of this course.

PreRequisites: GCDN3031 - GRAPHIC DESIGN II

**GCDN3043**  
**PACKAGING DESIGN**  
**Credits (Min/Max): 3/3**

The course is an introduction to the elements and principles of design for packaging, retail display and branded environments, with an emphasis on visual communication for three-dimensional design.

PreRequisites: GCDN2021 - GRAPHIC DESIGN I

**GCDN3045**  
**INTERACTIVE II**  
**Credits (Min/Max): 3/3**

An in-depth study of multimedia design, theory and application for upper-level Graphic Design students. This course covers advanced web design using CMS(Content Management System), animation, interactivity, online advertising as well as an introduction of mobile application design. Class assignments may be related to Graphic Design II which will be taken concurrently during the first semester of the Junior year. The class will explore design theories pertaining to interactivity, animation, online advertising and layout that will be interrelated to producing final solutions. Prereq: Successful completion of Mid-Collegiate Review.

PreRequisites: GCDN2021 - GRAPHIC DESIGN I

**GCDN3046**  
**MULTIMEDIA**  
**Credits (Min/Max): 3/3**

This course is an advanced study of multimedia and video design, theory and application for upper level Design students. Taught primarily on a MAC platform, this course utilizes software for digital video production. Class assignments will be closely related to GCDN3041 Graphic Design III, which will be taken concurrently during the second semester of the Junior year. The courses will be interrelated in terms of theory as well as outcome assessment.

PreRequisites: GCDN3045 - MULTIMEDIA II

**GCDN3051**  
**PUBLICATION DESIGN(ENGL3051)**  
**Credits (Min/Max): 3/3**

Intended for prospective designers as well as writers, the course will educate students in newspaper graphics and design. Hands-on experience will require participation in the La Roche Courier. Students will review and redesign the existing paper, and regularly participate with editorial illustration and photography, ad layout, design and production. Students will achieve an understanding of print production, including the utilization of four-color process and offset printing. Cross-listed with ENGL3051

PreRequisites: ENGL1012 - COLLEGE WRITING II

**GCDN3053**  
**WAYFINDING & ENVIRONMENTAL GRAPHIC DESIGN(IDSN3053)**  
**Credits (Min/Max): 3/3**

Introduction to the study and practice of Environmental Graphic Design (EGD) with an emphasis on understanding visual communication and information systems for navigating and experiencing the built environment. The course will cover theory and practical application of topics related to EGD including: principles of wayfinding, study of three-dimensional design and exploration of typography, symbols, identity and information design in the public space. Cross-listed with IDSN3053

PreRequisites: GCDN2008 - DIGITAL PUBLISHING

**GCDN4021**  
**DESIGN STUDIO:SPECIAL TOPICS**  
**Credits (Min/Max): 3/3**

The design studio class is a full-service, student-run communications/design agency that solely creates work for legitimate, real-time clients. Students who work in the design studio will gain an appreciation and an in-depth understanding of the business of design. To gain acceptance into this course, students must fill out an application and undergo a portfolio review and interview by GCD faculty.

**GCDN4041**  
**SENIOR DESIGN CAPSTONE**  
**Credits (Min/Max): 3/3**

This capstone-level course centers on the development of a semester long independent project. In consultation with faculty and peers, students will focus on creating multi-component, content-driven projects that demonstrate their ability to completely identify, research, self-author and implement in-depth solutions. The course will culminate with a final professional presentation.

PreRequisites: GCDN4055 - GRAPHIC DESIGN IV: SENIOR DESIGN SEMINAR

**GCDN4050**  
**SPECIAL TOPICS:**  
**Credits (Min/Max): 3/3**

Publication Design for Print & Web-SP14 This course will concentrate on contemporary magazine design for print and web. The course will enable students to analyze varying types and formats of information, to consider the needs of the intended audience and to design appropriate print and interactive components. Various methodologies will be explored in order to visualize information for clarity, readability and an editorial voice that remain consistent across both mediums.

PreRequisites: GCDN2008 - DIGITAL PUBLISHING

**GCDN4051**  
**GRAPHIC DESIGN-INTERNSHIP I**  
**Credits (Min/Max): 3/6**

A practical work experience in a field setting. The student receives credits for work performed.

**GCDN4055**  
**SENIOR DESIGN SEMINAR**  
**Credits (Min/Max): 3/3**

An open-ended senior seminar dealing with various aesthetic questions and team efforts in which students act as art director, designer, illustrator, writer, or photographer. Emphasis is placed on educational experiences that enable the student to move from hypothetical design problems to the challenge of working with clients on real jobs. Communication Design majors play a significant role on creative teams.

PreRequisites: GCDN3031 - GRAPHIC DESIGN II

**GCDN4057**  
**GRAPHIC & COMMUNICATION- INDEPENDENT STUDY**  
**Credits (Min/Max): 1/3**

This course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area.

**GCDN4058**  
**PORTFOLIO PREPARATION**  
**Credits (Min/Max): 3/3**

This course involves the exploration of self-promotion strategies necessary for success in the graphic design profession. In consultation with faculty and peers, students will revise and improve upon prior and current projects in order to develop a strong senior portfolio. Through instruction and research, students will learn techniques for effective verbal and visual presentation of their work. This course will prepare graduates for the job market and continued education. The course will culminate with the annual Senior Portfolio Show.

**GEOG2011**  
**WORLD GEOGRAPHY(INST2011)**  
**Credits (Min/Max): 3/3**

A study of the interactions between human beings and the land, and the influence of geography in shaping work and culture throughout the world. Cross-listed with INST2011

**GEOG2012**  
**EUROPEAN GEOGRAPHY**  
**Credits (Min/Max): 3/3**

A study of the continent of Europe as a whole with an emphasis on its diversity of peoples, its resources, its advanced culture and its relatedness to the rest of the world.

### **GEOG3010**

#### **CULTURAL GEOGRAPHY & THE HUMAN MOSAIC(INST3010)**

**Credits (Min/Max): 3/3**

The many ways in which humans have changed the face of the earth in response to culture is known as the human mosaic. The course applies the major themes of cultural geography to population, language, religion, agriculture and urbanism. A basic knowledge of world geography is assumed. Cross-listed with INST3010

### **GEOG3013**

#### **GEOGRAPHY & WORLD AFFAIRS (INST3013)**

**Credits (Min/Max): 3/3**

An overview of various regions of the world and the environmental conditions to which people adapt. Racial, linguistic, religious and economic groupings of people will be stressed. Current world events are examined to develop knowledge about historical, geographic, climatic, political and religious environments which people inhabit. Cross-listed with INST3013

### **GLBL4005**

#### **WHY WE FIGHT:HISTORICAL CONFLICT IN FACT, FICTION & FILM**

**Credits (Min/Max): 3/3**

An integrated study of the history and the stories, both historical and fictionalized, of wars, civil wars, revolutions armed struggles between communities throughout the world. By exploring examples from both the historical record, including biography and autobiography, and the tales created about real events and/or realistic characters, such as in novels, short stories, film, and poetry, students will understand more about who goes to war, why wars are fought, and the road toward peace. This is vital because War is more than simply an absence of Peace, and in order to more fully carry out part of the colleges Mission Statement, to promote justice and peace in a constantly changing global society, we should learn more about what brings about, occurs during, and may bring to an end such tragic strife. There will be four major sections to the course: 1) The leaders, from kings and presidents to lieutenants and NCOs; 2) The common soldiers or sailors, those who follow into battle and/or those who get caught up in it; 3) the causes for which they fought/fight, from high ideals to survival; and 4) a final section that explores how the three previous issues are intertwined. Included in the course will be the rhetoric both of those who fought and those who told the stories, the methods and tools of warfare, the creation and use of propaganda, and the differing views of history/reality from opposing sides in battle.

PreRequisites: EN111 - COLLEGE WRITING I

### **GLBL4007**

#### **INTERNET, COMMUNICATION & DEVELOPMENT**

**Credits (Min/Max): 3/3**

This course explores the issues of global communication, technology and development primarily by examining how internet and communication technologies are being used to improve development. From the least developed countries, to the pockets of poverty and deprivation in the richest countries, information and communication technologies are being used in innovative ways to improve lives. The uses of ICTs for health, education, business, government and agriculture will be studied.

### **GLBL4009**

#### **GLOBAL HEALTH CARE**

**Credits (Min/Max): 3/3**

This course will introduce students to global health matters and the increasing complex challenges of the health of populations in the 21st century from persisting problems to new and emerging public health threats.

### **GLBL4011**

#### **CRIME & TERROR: A GLOBAL PERSPECTIVE**

**Credits (Min/Max): 3/3**

This course, through the integration of the disciplines of criminal justice, national security studies, history, political science, and environmental studies will examine the concept of globalization by focusing on its key components. Elements such as technology, trade, financial networks, reduction of the power of national governments, and the creation and opening of new markets will be explored by looking at their effect on the individual and the community. The course will demonstrate how the global influences on individuals and communities affect both legitimate and illegitimate institutions and organizations. The ultimate focus will be on the increasing power and danger of global crime and terror organizations and how they operate. An appreciation of their everyday social and economic effects on individuals and communities will be developed through case studies of selected deviant organizations. The topics of differing criminal justice and political systems; environmental crime and terrorism; the increasing power of fundamentalist religious groups and their influence on terrorism; and international sharing of information will be presented and problems and solutions will be explored.

### **GLBL4011H**

#### **CRIME, TERROR & THE ENVIRONMENT: A GLOBAL PERSPECTIVE-HONORS**

**Credits (Min/Max): 3/3**

This honors Global course integrates the disciplines of criminal justice, national security studies, political science, and the natural sciences in a study of globalization's influence on international crime and terrorism that is linked to the natural environment. Subjects such as resource scarcity, pollution, desertification, species elimination, and climate change will be explored by examining their effects on the individuals and communities that are linked to the world's ecosystems. The main focus will be on the increasing power and danger of global crime and terror organizations and how they use the natural environment as a target for their illegal activities. An appreciation of their everyday social and economic effects on individuals and communities will be developed through case studies of selected deviant organizations.

#### **GLBL4015**

##### **EARLY CANADIAN HISTORY & TALES**

**Credits (Min/Max): 3/3**

An integrated study of the early history of Canada, up to the late 1800s, and the literature and films both from and about those times. Students will begin this study with the times of the first explorers, from Champlains books, to the colonization of the land and native people by the French, especially its Catholic missionaries. The course will then transition to the arrival of the British, beginning with the war that expelled French rule but not its colonists in the east, the impact of wars with America (both the Revolution and of 1812), and the push west to the edge of the Prairies. Finally, we will explore the great Arctic explorers stories, such as Franklins epic and tragic history, the Métis rebellion in the countrys heartland, and the literal nation building accomplished by the cross continental railroad reaching Vancouver, 1871-1885, soon after the nations Confederation in 1867.ents.

PreRequisites: EN111 - COLLEGE WRITING I

#### **GLBL4017**

##### **DISEASES THAT CHANGED THE WORLD**

**Credits (Min/Max): 3/3**

The history of the world has been and continues to be significantly impacted by infectious diseases. Examples include changes in ethnic diversity in the U.S. due to European potato blights, the outcome of world wars where more soldiers died of influenza or cholera than battle wounds, the destruction and contamination of the natural environment in attempts to control malaria- and yellow fever-carrying mosquitoes, and prejudices against various national and ethnic groups as carriers of disease. At the same time that infectious diseases have altered human politics, economics and culture, human behaviors and technological advances have caused the global spread of once-isolated diseases and the emergence of new plagues. However, history has also shown that, with the right combination of scientific knowledge and global political, financial and social commitment, even the oldest and most feared microbial plagues can be controlled and possibly even eradicated. This course is a study of the history of various infectious diseases including the biological, social, economic and political factors that affect and are affected by these diseases.

#### **GLBL4025**

##### **WOMEN ACROSS CULTURES**

**Credits (Min/Max): 3/3**

This course will explore the varying roles, positions & statuses of women in the developing world. Among the topics covered are the roots of patriarchy; women's health; women & work; women & development; the similarities & differences in women's experiences across diverse regions; the dynamics & creativity of women's activities & their importance in various cultures; gender roles & relationships; the historical & cultural roots & consequences of subordination & oppression; roles of women in agriculture, religion, politics, the arts & other arenas; the impact of globalization on women's lives; and, the global struggle for women's rights.

#### **GLBL4027**

##### **GLOBAL JUSTICE & HUMAN RIGHTS Historical, Political, & Social- Economic Perspectives**

**Credits (Min/Max): 3/3**

This global integrative course, combining a number of elements from the social sciences, will focus on issues of human rights in the modern world - linking compelling problems of issues of today with their historical roots and with implications for tomorrow's world.

#### **GLBL4029**

##### **GLOBAL ADORNMENT**

**Credits (Min/Max): 3/3**

This global core curriculum course presents an interdisciplinary exploration of adornment - jewelry, body art, ornamentation and the like - as an essential component of global cultures, ritual and individual and collective identity formation and expression. The course will explore the general role of adornment in identity formation and cultural process. Students will examine the form and role of adornment has assumed in several specific cultures, exploring both differences and similarities, and the impact that globalization has had on cultural adornment in terms of preservation, alteration, and destruction. Students will also experience the process of creating cultural adornments of various types through applied design and art activities. Through the travel component (which initially may be offered separately), students will learn firsthand about adornment in a specific culture, studying the cultural, economic, and operational aspects of adornment production, sale and use.

#### **GLBL4033**

##### **LITERACY, CULTURE & EDUCATION**

**Credits (Min/Max): 3/3**

This course is designed to place education in a global context by examining the complex networks that link a culture's ideas of and uses for literacy to the formal educational structures created and sustained by those ideas. Students will examine how "schooled literacy" is defined in different cultures, investigate how schools in U.S. culture literacy, and examine the cultural and social uses imagined for literacy and schooling.

**GLBL4045****MORAL OF THE STORY****Credits (Min/Max): 3/3**

This course addresses prominent global issues and problems through the dual lens of philosophical ethics and literature. The nature of the course is global in its attention to a wide range of issues stemming from globalization, including those pertaining to the environment, society, religion, and politics; it is also interdisciplinary in its employment of both Ethics and World Literature as vehicles for the analysis of such global concerns. Students read selections of classic and contemporary literature by renowned authors and investigate issues of global ethics evoked within the texts. This is accompanied by an examination of basic philosophical theories and principles in moral reasoning as they pertain to the relevant ethical issues.

**GLBL4050****CONSUMPTION & SUSTAINABILITY****Credits (Min/Max): 3/3**

This course will introduce students to concepts of globalization, consumption economies and cultural trends in historical and modern contexts. Sustainability and social responsibility will provide a framework for the study of cultural, commercial and aesthetic factors influencing the selection and usage of consumer products and services that create and express social identity. This course will present information for students to understand how our buying and consumptive habits affect the environment and will explore the self, first. Students will understand by the end of the course that there are more than monetary costs for the products we consume.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**HIST1010****US HIST 1607-1865 FOUNDATIONS OF A REPUBLIC****Credits (Min/Max): 3/3**

A study of the history of the United States from 1607 to 1865. This course traces the development of the United States from the earliest European settlers to the formation of a republic, noting the events, people and ideas involved in the struggle to achieve that end. Particular emphasis is given to colonial America, the American Revolution, the constitutional process of 1789, Native Americans and slavery.

**HIST1011****US HIST:EMERG OF MASS DEMOCRACY (1865-1945)****Credits (Min/Max): 3/3**

A study of the history of the United States from 1865 to 1945. This course traces the development of the United States from the aftermath of the Civil War to its emergence as a world superpower, noting the events, people and ideas involved in that development. Particular emphasis is given to Reconstruction, industrial development and World War II. Cross-listed with SLHS1006

**HIST1011H****US HIST:EMERG OF MASS DEMOCRACY (1865-1945)-HONORS(SLHS1006H)****Credits (Min/Max): 3/3**

A study of the history of the United States from 1865 to 1945. This course traces the development of the United States from the aftermath of the Civil War to its emergence as a world superpower, noting the events, people and ideas involved in that development. Particular emphasis is given to Reconstruction, industrial development and World War II. Cross-listed with SLHS1006H

**HIST1012****US HIST:CONTEMP TIMES(1945-PRES)****Credits (Min/Max): 3/3**

A study of the United States since World War II as it struggles with its role in being a superpower in the world and its role in fulfilling the American dream at home. Special emphasis is placed on the Cold War, the Great Society and Vietnam, the Civil Rights Movement, and the Reagan, Bush, Clinton & Obama presidencies, and post 9/11 American Society.

**HIST1013****WESTERN CIVILIZATION I(SLHS1004)****Credits (Min/Max): 3/3**

This course focuses on Western civilization from its origin in the Near East up through the Protestant Reformation. Special emphasis is given to the social, economic, religious, and political institutions that shaped the roots of Western Civilization. Attention is also concentrated on the place of the individual within this society.

**HIST1014****WESTERN CIVILIZATION II****Credits (Min/Max): 3/3**

This course focuses on Western civilization from the Reformation to contemporary times. Special emphasis is given to the characteristics which define Western civilization as it emerged from the Middle Ages into modern times including science, faith, reason, capitalism, communism, the growth of institutions and the arts.



**HIST2000****BRITAIN AND ITS EMPIRE****Credits (Min/Max): 3/3**

This course covers the early history of Britain from pre-Roman times up through and beyond the Middle Ages and explores the political, social and economic origins of the British Empire. The empire is then examined in depth at its zenith in the 19th century as it became entrenched in different world areas; we explore the impact on local peoples and nations. The course concludes with attention to the decline of the British Empire.

**HIST2023****THE HISTORY OF ENGLAND****Credits (Min/Max): 3/3**

A study of England from Roman times to the Revolution of 1688 with special emphasis on the rise of Parliament and on the growth of Common Law. This course traces the transition of England from a part of Mediterranean culture to a part of French Catholic Europe to becoming a distinctive culture of its own.

**HIST2035****HISTORY OF LATIN AMERICA****Credits (Min/Max): 3/3**

A study of the growth and development of Hispano- and Luso-America from the European Conquest to the present. Emphasis is given to the interrelationships between the Church, the Military and the State, political and economic development, and social changes throughout Latin America.

**HIST2040****THE HISTORY OF WESTERN PENNSYLVANIA****Credits (Min/Max): 3/3**

The course covers the history of Western Pennsylvania from prehistoric times to the present. Special emphasis is given to the history of Pittsburgh and Southwestern Pennsylvania; the Indian cultures; the colonial and revolutionary periods; the impact of industrialization; religion and immigration, local culture and the renaissance.

**HIST2045****ISLAM IN THE WORLD (POLI/SOCL2045)****Credits (Min/Max): 3/3**

In this course, the basic beliefs of Islam are reviewed, along with a brief history of Islam's overall development and its impact on the world and on various civilizations in different global regions. Islam's internal sects are analyzed, and its political impact on current politics in the world is explored. The role of U.S. foreign policy in dealing with the recent rise of Islam is also analyzed. Cross-listed with POLI/SOCL2045

**HIST3000****HISTORY & CULTURE OF AMER INDIAN****Credits (Min/Max): 3/3**

A study of the Native Americans from prehistoric time to the present with emphasis on the uniqueness of Native American culture, and the impact of Euro-American contact on native American societies.

**HIST3002****HISTORY OF EUROPEAN DIPLOMACY (POLI3002)****Credits (Min/Max): 3/3**

The internationally accepted style of diplomacy had its origins in Italy in the late 1400's. Emphasis is placed on the mechanisms of diplomacy as well as its use by European powers: classical diplomacy in the 19th century and the impact of that system on other areas of the globe. The decline of European style diplomacy in the World War/Cold War era is described. Cross-listed with POLI3002

**HIST3005****CONTEMPORARY CENTRAL AMERICA****Credits (Min/Max): 3/3**

Through class lectures, discussions, essay tests, a term paper, assigned readings, and slide and video presentations, this class shall review the history of the five Central American nations and their relationships, political, economic, and social, with the United States. Such concepts as economic dependency, neocolonialism, developmentalism, free market economic theory, grassroots democracy, militarism, liberation theology, and socialism will be discussed in depth, along with the general history of the five countries. The problems of indigenous peoples, human rights abuses, class stratification, and recent changes in religion, including phenomenal growth of Pentecostalism, shall be emphasized. By so doing, it is hoped that the student will come to a sophisticated understanding of the contemporary crises in Central America.

**HIST3008****THE GREEK WORLD****Credits (Min/Max): 3/3**

The course will cover the Minoan, Hellenic and Hellenistic periods, including the study of Achaean civilization, the Classic period, Alexander's empire and the successor states. Special emphasis is placed on those aspects of Greek history and culture that are considered the foundation of Western civilization.

**HIST3010**  
**THE ROMAN WORLD**  
**Credits (Min/Max): 3/3**

A study of the Roman Republic and Empire from 776 B.C. to 476 A.D. Special emphasis is placed on republican institutions, the expansion of the Empire, the collapse of the Republic, the development of the reasons for the fall of the Empire.

**HIST3015**  
**HISTORY/POLITICAL THOUGHT (POLI3015)**  
**Credits (Min/Max): 3/3**

In this course we inquire into the origins, evolution and development of political philosophies, focusing on the theories that have shaped Western political thought from ancient times to the present day. Analyze key concepts in Western political thought such as liberty, justice, morality, political rights, and democracy. Students will also be asked to create their own political theories. Students will learn the genesis of political thought over the past 2,000 years, how to critically assess these theories, and how to create their own theories. Cross-listed with POLI3015

**HIST3017**  
**THE MIDDLE AGES**  
**Credits (Min/Max): 3/3**

A study of the political, economic, social, religious, and intellectual developments of Europe from the fourth through the fourteenth centuries. Special emphasis will be placed on the Germanic invasions, the growth and development of Western Christianity, feudalism, the origins and growth of medieval commerce and urban life, and the development of centralized monarchies and nationalism.

**HIST3018**  
**HISTORY OF AFRICA**  
**Credits (Min/Max): 3/3**

In this course we investigate the origins of pre-colonial African civilizations; analyze the spread of global trade within and beyond Africa; explore the colonial period in terms of British, French and Portuguese empire-building; and examine resistance to colonialism, the independence movements, and post-colonial (contemporary) politics in Africa.

**HIST3019**  
**HISTORY OF JAPAN**  
**Credits (Min/Max): 3/3**

A study of Japan from its first contact with Western civilization in the 17th century to the present including the period of isolation, the opening of Japan, the rise of militarism, World War II and Japan in the modern world.

**HIST3020**  
**RUSSIA & THE SOVIET WORLD**  
**Credits (Min/Max): 3/3**

A study of the emergence of imperial Russia as a European power, its expansion and industrialization, the forces which blended to bring about the Revolution of 1917, the growth and development of the Soviet Union under Lenin and Stalin, and the fall of communism. Special emphasis is given to Marxism as it has been put into practice in the Soviet system.

**HIST3023**  
**MODERN U.S. DIPLOMATIC HISTORY (INST/POLI3023)**  
**Credits (Min/Max): 3/3**

This course presents a study of the major developments in American diplomatic history. Special emphasis is placed on the years from World War II until the present. Major international developments and their effects on American diplomacy are discussed along with the impact of various presidents and the influence of the United Nations. The interrelation between foreign policy and domestic opinion is also examined. Cross-listed with INST/POLI3023

**HIST3025**  
**SPECIAL TOPIC IN HISTORY:**  
**Credits (Min/Max): 3/3**

This course examines how particular myths influence the emergence of culture in different parts of the world. Different societies have long histories of myth-making; we explore how these myths help to create culture in a variety of world areas.

**HIST3026**  
**HISTORY OF MODERN GERMANY**  
**Credits (Min/Max): 3/3**

A study of the impact of the French Revolution on German political and cultural life; of the growth of liberalism and nationalism; of the wars of unification, Bismarckian Germany and World War I; of the rise and fall of National Socialism and of the recovery and post-war problems.

#### **HIST3027**

##### **HISTORY OF MODERN EUROPE (INST3027)**

**Credits (Min/Max): 3/3**

A survey of the past two centuries of European history that is intended to provide global awareness and an appreciation of the accomplishments European civilization. Cross-listed with INST3027

#### **HIST3028**

##### **EAST ASIAN HISTORY (INST3028)**

**Credits (Min/Max): 3/3**

An overview of the history of Korea, Japan, China, Singapore, Taiwan, Hong Kong, and Malaysia. The domestic, political, social, and economic bases of the historical development of these nations will be considered. Political influences of other world powers will be considered. Cross-listed with INST3028

#### **HIST3029**

##### **HISTORY & POLITICS-MIDDLE EAST :SPECIAL TOPIC IN HISTORY**

**Credits (Min/Max): 3/3**

The history of the Arab-Israeli conflict from the Palestinians' first encounter with Zionism through the current peace process of the 1990s. The history of the Jewish Enlightenment (Haskala) in 19th Century Europe and the development of Zionism through the current peace process between the state of Israel and the Arab states and the Palestinian national movement will be explored, as will the impact of colonialism and the development of nationalism in the Arab world. These various factors will be related to salient global developments of the 20th century.

#### **HIST3030**

##### **WOMEN IN AMERICAN HISTORY**

**Credits (Min/Max): 3/3**

This course examines through women's eyes the images and realities of women's social, political, and economic lives in America from the 1600's to the present day. We analyze women in relation to legal, religious, and social restrictions, women's roles in 19th century moral reform movements, the birth of the women's rights movement, and the immigrant experience. An important component of the course will be women's activism and women's roles in social movements in the latter half of the 20th century, including civil rights, women's liberation, and gay and lesbian rights. The course concludes with an assessment of feminism in the present day.

#### **HIST3034**

##### **HISTORY OF PENNSYLVANIA**

**Credits (Min/Max): 3/3**

"The History of Pennsylvania will track the political, economic, and social developments of Pennsylvania from early colonial times up through to the present. Emphasis will be placed on colonial-era history (when Pennsylvania was a British colony), as well as the 18th, 19th and 20th century rise of industry, immigration and ethnicity, religious diversity, and cultural forms of popular expression."

#### **HIST3036**

##### **HIST OF AMERICAN VALUES, BELIEFS (POLI3036)**

**Credits (Min/Max): 3/3**

In this course we explore the central values, beliefs and ideas that have helped to both shape and reflect the changing history of the United States. Special attention is paid to how particularly important values and ideas reflected certain time periods in American history, and helped to make this country unique. America's values and beliefs evolved both from social changes and grassroots political movements as well as from its leaders and influential thinkers. Contemporary ideas and values in America are provided considerable attention. Cross listed with POLI3036

#### **HIST3037**

##### **RELIG INFL ON US DVMT(RELS3037)**

**Credits (Min/Max): 3/3**

An examination and interpretation of the religious forces that were influential in shaping American social structures, mores, law and popular opinion from the time of the first Spanish missionaries to the present. Special emphasis is placed on religious liberty in the American ideal and on religious pluralism. Cross-listed with RELS3037

#### **HIST3038**

##### **HISTORY OF BLACK AMERICANS**

**Credits (Min/Max): 3/3**

A history of the experience of Black Americans from their origins in West Africa to contemporary times. Emphasis is given to the various systems of slavery in America; the impact of slavery on American society; emancipation and reconstruction; contributions of Black Americans and self-help; Black Americans in war and the Civil Rights Movement of the 1960's and 1970's.

**HIST3039****U.S. LABOR HISTORY & LIT (ENGL3039):SPECIAL TOPICS IN HISTORY****Credits (Min/Max): 3/3**

This course investigates American Labor, from colonial day to the present, from both historical and literacy perspective. *Cross-listed with ENGL3039*

**HIST3040****VARIETIES OF EARLY CHRISTIANITY (RELS3040)****Credits (Min/Max): 3/3**

This course treats Christianity from its origins through the medieval period. Special attention is given to internal issues and external forces, which caused conflict, adjustment, development, and finally varieties within the Christian world. For instance, it explores how dissident movements, the conversion of Constantine, the Germanic invasions, and the rise of Islam, feudalism, and papal power affected Christianity. The course also attempts to analyze how tensions between the institutional church and popular religious movements influenced society. Cross-listed with RELS3040

**HIST3045****HISTORY & POLITICS OF MID EAST (POLI3045)****Credits (Min/Max): 3/3**

This course explores the peoples and history of the Middle East, from ancient times, including a procession of impressive empires, until their eventual domination by the Ottomans and finally, by British Empire. We investigate the accommodation of the British to Middle Eastern kingships and the impact of colonial state-building. We proceed to examine the establishment of the state of Israel and the evolution of Palestinian-Israeli relations over past half a century. Cross-listed with POLI3045

**HIST3050****HISTORY METHODOLOGY****Credits (Min/Max): 3/3**

This is an introductory historical methods seminar involving students in identifying, understanding, and utilizing conceptual building-blocks of comparative historical analysis. Comparative History is rooted in a larger scholarly discipline whose elements, methodologies, and divergent philosophies will be touched on. Notions of historical stages, social classes and power structures, ideology, and identities (such as race, class, gender, nationality, etc.) will be examined. There will be an identification of different areas in the discipline such as political history, intellectual history, cultural history, economic history, social history.

**HIST3051****DEVELOPMENT IN SOUTHEAST ASIA (POLI/SOCL3051)****Credits (Min/Max): 3/3**

This course looks at the history of social, political and economic development of Southeast Asia, excluding Indochina, and focusing primarily on Indonesia, Malaysia, and the Philippines. It will discuss the contingent and dependent nature of development of these countries under the larger framework of global capitalism, and how such development affects the national historical experiences of these countries. Cross-listed with POLI/SOCL3051

**HIST3052****EXPERIENCE OF MODERN WAR (POLI3052)****Credits (Min/Max): 3/3**

In this course, the experience of modern war is analyzed as a contemporary political phenomenon with broad political implications for the understanding the relationship between national and international politics, on the one hand, and the actual experience of war, on the other. Contemporary and modern wars are studied from the perspective of the soldier in the field, as well as from the broader perspective of commander decision-making, generals' war strategies, and the global context of war-making. Also taken into account is the impact of war on the inhabitants of war-affected countries; on military veterans; and on the national political system of the countries involved in a war. Cross-listed with POLI3052

**HIST4055****SENIOR SEMINAR****Credits (Min/Max): 3/3**

A research course acquainting students with historical research methods through the writing of a seminar paper and through group discussion of the research process.

**HIST4056****DIRECTED RESEARCH****Credits (Min/Max): 2/4**

Individual research in history supervised by a faculty member. The student defines a problem, constructs and carries out a research program and reports on the findings of the research in a critical and analytical paper.

**HIST4057****HISTORY-INDEPENDENT STUDY****Credits (Min/Max): 1/3**

Individual study supervised by a full-time faculty member.

**HRMT5011****CONCEPTS OF FINANCIAL & BUDGET****Credits (Min/Max): 3/3**

This course will survey the basic principles, terminology and uses of budgeting and accounting techniques as they relate to the Human Resource function. The course will explore frameworks for understanding the interdependence between the Human Resource and Finance functions including assessing the general costs of HR and such specifics as turnover, absenteeism, EAP, technology, compensation and benefits planning, and HR budgeting.

**HRMT5012****LEGAL ASPECTS OF HRM****Credits (Min/Max): 3/3**

This course provides an introduction to the laws, regulations and court decisions covering the HRM function and the employment relationship, including labor-management, OSHA, FMLA, EEOC, ERISA, ADA, employment-at-will and other HRM-related laws. Compliance programs will also be reviewed.

**HRMT5013****QUANT. RES. METHODS IN HRM****Credits (Min/Max): 3/3**

This course is designed to provide the student with an overview of the principles of quantitative and qualitative research as it relates to the HR discipline. Various research methods and techniques are explored with the purpose of developing the student's ability to critically evaluate HR research studies and enable effective conduct of their own HR research. Specific examples include survey design, attitude research, communication, assessment and program evaluation.

Prerequisites: MATH1040 - PROBABILITY & STATISTICS

**HRMT5020****ORGANIZATIONAL BEHAVIOR****Credits (Min/Max): 3/3**

This course is designed to provide the student with the background and skills to augment the student's managerial effectiveness. The course emphasizes theories of micro- meso- and macro-organizational behavior as they relate to the workplace. Human Resource topics include motivation and individual behavior, interpersonal and group behavior, job satisfaction, work stress, leadership, organizational structures and culture.

**HRMT5023****ORGANIZATIONAL THEORY****Credits (Min/Max): 3/3**

This course provides the student with a forum to explore different theoretical ways of thinking about organizations. Students will be introduced to traditional, modern, and post-modern organizational theories from different disciplines. Students will also come to understand how these theories impact the way in which we view, comprehend and act in organizations.

**HRMT5025A****INTEGRATIVE SEMINAR****Credits (Min/Max): 3/3**

This 2-term seminar provides the student with a capstone experience, designed to integrate the disciplinary knowledge gained in the program and prepare the student for effective HR practice. Students will learn how to develop and use HR strategy, how to initiate and manage HR consulting relationships, and how to use HR assessment and evaluation tools. As part of the seminar, students will design, implement and evaluate an HR consulting project in their area of concentration.

Prerequisites: HRMT5013 - QUANT. RES. METHODS IN HRM

**HRMT5025B****INTEGRATIVE SEMINAR****Credits (Min/Max): 3/3**

This 2-term seminar provides the student with a capstone experience, designed to integrate the disciplinary knowledge gained in the program and prepare the student for effective HR practice. Students will learn how to develop and use HR strategy, how to initiate and manage HR consulting relationships, and how to use HR assessment and evaluation tools. As part of the seminar, students will design, implement and evaluate an HR consulting project in their area of concentration.

**HRMT6000****HUMAN RESOURCES INFORMATION SYSTEMS****Credits (Min/Max): 3/3**

Through this course, you will learn to recognize and appreciate the management of information systems as an integral part of the HR function. The course will present major technological advancements and a review of available software, which supports HR. Emphasis is on the accessibility and availability of information. Familiarity with spreadsheets and relational database management is helpful, but not required.

**HRMT6001****COMPUTER & WEB BASED TRAINING****Credits (Min/Max): 3/3**

Computer and Web-based Training is an introductory course designed to provide students with a practical approach to the theory, principles, and application skills relevant to the design of computer and web-based training courseware. This course additionally focuses on the advantages and disadvantages of electronic educational communications and the variances in the audience characteristics that warrant its success. Students will be given preliminary resources and strategies that will help in the development of instructional plans and future professional courseware design.

**HRMT6002****WORKFORCE DIVERSITY: LOCAL & GLOBAL PERSPECTIVES****Credits (Min/Max): 3/3**

This course examines the strategic management of workforce diversity from both a local and a global perspective. The course begins with a study of historical and contemporary forms of prejudice and discrimination, in the U.S. and abroad, followed by an exploration of the local and global legislation related to equal opportunity in the workforce. Students will learn about different approaches to diversity management and how to handle diversity metrics. They will also study the issues that affect specific identity groups, defined by such factors as religion, disability, age, gender, sexual orientation, and race/ethnicity.

**HRMT6006****TOPICS IN INTERNATIONAL HRM:****Credits (Min/Max): 3/3**

This course offers students a comprehensive foundation in International Human Resource Management (IHRM). The course reviews the contextual and strategic elements of IHRM, including the internationalization of business and HRM, aligning corporate strategy and structure at the global level, the international legal context, and international culture. Students will also learn about specific HRM applications in the international context, such as global talent management and staffing, international training and development, global compensation management, and international performance management.

**HRMT6011****ADV. TOPICS IN LEGAL ASPECTS****Credits (Min/Max): 3/3**

A study of the practical application of legal theory (excluding traditional labor law) to human resources management, from the development of job descriptions for use in recruiting through post-termination proceedings. Special emphasis is placed on equal employment and wage hour matters and other selected topics.

**HRMT6012****TRAINING AND DEVELOPMENT****Credits (Min/Max): 3/3**

This course deals with the overall training and development process, including the design of training programs, identification of training needs, selection of training techniques, development of presentation skills and evaluation of program effectiveness. Techniques and theories of training and development of people in organizational settings are also explored.

**HRMT6013****COMPENSATION MANAGEMENT****Credits (Min/Max): 3/3**

This course examines the various direct financial, indirect financial and non-financial reward systems that are used to achieve the organizational goals of attracting, retaining, and motivating the employee. Both the employer and the employee perspectives are reviewed. Also covered are the various performance appraisal systems and their relationship to organizational reward systems.

**HRMT6015****EMPLOYEE BENEFITS ADMINISTRATION****Credits (Min/Max): 3/3**

This course presents an overview of employee benefits, planning total benefits programs, issues in the design and selection of benefits programs, costing employee benefits, different type of benefits flexible programs communicating benefits programs and selecting and using benefits consultants.

**HRMT6016****EMPLOYEE HEALTH & SAFETY****Credits (Min/Max): 3/3**

This course presents an overview of relevant and current information regarding health/mental health, safety, and security issues affecting the 21st-century workplace and the develop of services by the human resources team to respond to these issues. Through this course students will explore employee assistance programs and other related services. Topics will also include compliance with legislation and regulations related to the health and safety of the American worker.

#### **HRMT6017**

##### **RECRUITMENT AND PLACEMENT**

**Credits (Min/Max): 3/3**

A survey of the basic techniques for the recruitment, selection and placement of people. Topics include the preparation of job specification, the development of a recruiting strategy, methods and procedures of recruiting and selecting candidates, and the need for proper new employee orientation.

#### **HRMT6018**

##### **LEADERSHIP**

**Credits (Min/Max): 3/3**

This course will provide the student with the opportunity to engage in contemporary discussions of leadership, theory and personal leadership effectiveness. Course topics include what leaders do, how leaders think, and how leadership is developed and learned.

#### **HRMT6020**

##### **INTERVENTION & ORGANIZATIONAL CHANGE**

**Credits (Min/Max): 3/3**

This course explores methods of organizational diagnosis, planned change and intervention, and various concepts and methods of planned organizational change. These concepts and methods will be applied to an organizational setting selected by the student.

#### **HRMT6021**

##### **LABOR RELATIONS & COLLECTIVE BARGAINING**

**Credits (Min/Max): 3/3**

A survey of the organizational and economic aspects of management/employee relationships. The main topics include a historical review of the American labor movement, an overview of the social, instructional and organizational frameworks within which the collective bargaining process occurs, and techniques of labor/management dispute management. Theories and principles of collective bargaining will be covered, and a mock bargaining session will be held to provide a "hands on" approach to bargaining.

#### **HRMT6028**

##### **INTERNET & TECH RECRUITING**

**Credits (Min/Max): 3/3**

This course introduces the student to the field of recruiting technical employees. Course materials are specifically designed to provide the student with an understanding of how to use online recruiting techniques to find technical employees. Topics include: the strategic role of HR, writing ads and advertising for jobs, selecting an online service, the future of recruiting, ethical issues in online recruiting, and technical recruiting. This is an online class.

#### **HRMT6034**

##### **MANAGING INFORMATION TECHNOLOGY & CHANGE**

**Credits (Min/Max): 3/3**

This course will cover various types of information technology, the elements of project management, implementing and evaluating the technology, managing knowledge workers and managing the change process. Students will learn that managing information technology includes more than managing a "computer." As a result, classroom discussion and student learning will include processes and procedures necessary to improve productivity and efficiency within the organization.

#### **HRMT6035**

##### **SHRM LEARNING SYSTEM**

**Credits (Min/Max): 3/3**

This course provides an overview of key areas in human resource management corresponding to the six functional areas as defined by the Human Resource Certification Institute (HRCI) and covered in the PHR and SPHR exams. These six modules are Strategic Management, Workforce Planning and Employment, Human Resource Development, Compensation and Benefits, Employee and Labor Relations, and Safety and Environment. The course is offered in cooperation with the Society for Human Resource Management (SHRM) and uses SHRM student learning materials which prepare students to take the Professional in Human Resources (PHR) and Senior Professional in Human Resources (SPHR) certification examinations administered by HRCI. Students are required to use the most current version of the SHRM Learning System Materials.

#### **HRMT6036**

##### **PERFORMANCE MANAGEMENT**

**Credits (Min/Max): 3/3**

Performance Management is the process through which managers ensure that employee's activities and outputs contribute to the organization's goals. The student will learn how to design and use performance management systems to help the organization meet business objectives, link employee behaviors to organizational goals, and create administrative systems that provide information for day-to-day decisions such as salary and benefits administration, the development of training programs, and decisions regarding retention and termination.

#### **HSCG0001**

##### **PROFESSIONAL ASPECTS OF ANESTH**

**Credits (Min/Max): 0/1**

This course includes an introduction to the ethics, legal aspects, psychology, and professional adjustments associated with a career in anesthesia. The history of anesthesia and nurse anesthesia is presented, as well as a discussion of the role of the CRNA in department management and organization.

#### **HSCG5000**

##### **ADVANCED PHARMACOLOGY I**

**Credits (Min/Max): 3/3**

This course introduces the basic principles of pharmacology. Topics include the pharmacokinetics of drug absorption, distribution, metabolism and excretion; the mechanisms of drug action; drugs affecting the central nervous system and the autonomic nervous system; inhaled anesthetics; and neuromuscular blocking agents and reversal.

#### **HSCG5001**

##### **ADVANCED PHARMACOLOGY II**

**Credits (Min/Max): 3/3**

This course is a continuation of Advanced Pharmacology I. It is an intensive and comprehensive study of drugs and adjuvant agents currently utilized in the practice of anesthesia and therapeutics. The course will include a review of local and intravenous anesthetics; narcotic agonists and antagonists; other psychotropic agents; anti-inflammatory drugs; and drugs that act on the cardiovascular, respiratory, renal, hepatic, gastrointestinal and hematological systems.

#### **HSCG5003**

##### **ORGANIC & MEDICINAL CHEMISTRY**

**Credits (Min/Max): 3/3**

This is a one-semester survey course in organic chemistry organized around the functional groups of compounds. Aspects of organic chemistry pertinent to health, environment, and biochemistry are stressed. Time permitting, classes of drug molecules will also be examined. Because concepts such as spatial orientation and geometric, optical and conformational isomerism are essential to an understanding of drug action, these concepts are essential to the course.

#### **HSCG5004**

##### **BIOCHEMISTRY**

**Credits (Min/Max): 4/4**

This course is an introduction to the chemistry of living organisms. It includes a discussion of cellular macromolecules, metabolic pathways, energy transformation and respiratory mechanisms. The composition of body fluids is also considered. The effects of anesthesia on body fluids, on the function of major organs, and on the activity of specialized molecules will be described. The major theories of narcosis and their biochemical implications will be examined.

#### **HSCG5010**

##### **RESEARCH METHODOLOGY**

**Credits (Min/Max): 3/3**

This course is designed to explore the nature, value, and utility of nursing research. An overview of the process by which research is conceived and conducted is presented, with emphasis on varying approaches and methodologies, conceptual consistency, and ethical considerations. Critical appraisal of published research affords the student the opportunity to become a more discriminating consumer of research and a better-informed participant in the research process. The relationships among research, theory, and practice are presented and linked to the student's arena of practice.

#### **HSCG5012**

##### **MEDICAL PHYSICS**

**Credits (Min/Max): 4/4**

This is a survey course in physics, which will cover topics of importance to anesthetic applications. Essential concepts related to atomic structure, pressure, hydrostatics, hydrodynamics, the ideal gas laws, diffusion, heat and vaporization will be presented. The physics of fire and explosions as well as safety issues will be discussed. The development of problem solving skills will be emphasized.

#### **HSCG5021**

##### **ADVANCED ANATOMY, PHYSIOLOGY & PATHOPHYSIOLOGY I**

**Credits (Min/Max): 5/5**

This course is a study of the structure and function of the human body. Emphasis is placed on the nervous, muscle and cardiovascular systems. Selected pathophysiology of each of the above systems will be examined.



**HSCG5022****ADVANCED ANATOMY, PHYSIOLOGY & PATHOPHYSIOLOGY II****Credits (Min/Max): 5/5**

This course is a continuation of Advanced Anatomy, Physiology, and Pathophysiology I. The course will cover the cardiovascular, respiratory, renal, hepatic and endocrine systems. Selected pathophysiology of each of the above systems will be discussed.

**HSCG5030****ANESTHESIA DIDACTICS I****Credits (Min/Max): 6/6**

This course is an introduction to anesthesia practice and techniques. It includes topics which deal with pre-operative evaluation and interview of patients, anesthetic drugs, anesthesia selection and care plans, patient positioning, fire safety, postoperative visits, monitoring, anesthesia machines, airway management, venipuncture, and other principles of anesthetic management.

**HSCG6012****NURSING RESEARCH II: EVIDENCE- BASED NURSING PRACTICE****Credits (Min/Max): 3/3**

This course is designed to provide the opportunity for continued investigation into the role of research in nursing practice. Through a variety of research activities students will be invited to apply the concepts of research and the research process that were presented in Nursing Research I to an independent exploration of a selected area of interest in nursing.

**HSCG6030****ANESTHESIA DIDACTICS II****Credits (Min/Max): 6/6**

This course examines specific anesthetic techniques used for surgery involving pediatric, neurosurgical, obstetric, thoracic, dental, endoscopic, vascular, cardiac, abdominal, emergency, diagnostic and outpatient procedures. Conferences will be an integral part of this course and will include a review of journal articles and case discussions.

**HSCG6055****ADVANCED THEORY & PROC OF ANESTH****Credits (Min/Max): 4/4**

This course is designed to build upon the student's basic knowledge and skills. It will encompass and integrate a variety of input for medical and anesthetic management. It will focus on a greater depth of understanding and the ability to analyze concurrent problems that can arise in patient care and propose an appropriate course of management.

**HSCU1005****INTRO TO HEALTH PROFESSIONS****Credits (Min/Max): 1/1**

This elective course for health science majors introduces undergraduates to varied allied health careers through direct discussions with certified health professionals from each field. Weekly discussions touch on every major facet of a field, such as training requirements, job responsibilities, and salary ranges. The course also provides an increased perspective of the United States healthcare system.

**HSCU2001****RADIOLOGIC TECHNOLOGY I****Credits (Min/Max): 2/2**

This introductory course will lay the groundwork for successive radiography courses. The course provides information on radiographic anatomy of the upper and lower extremities, the history of imaging and an introduction to radiation, an introduction to radiation protection, and professionalism. Extensive orientation and certification in CPR are also included in this course.

**HSCU2002****CLINICAL EDUCATION I****Credits (Min/Max): 2/2**

This course provides orientation to radiographic equipment, procedures, department policies, and patient care and safety. Competency based clinical instruction is provided in examination of upper and lower extremities.

**HSCU2003****RADIOLOGIC TECHNOLOGY II****Credits (Min/Max): 2/2**

This course provides information on the formation and recording of the radiographic image including film processing and darkroom design and function. Patient care components, such as vital signs, oxygen administration, infection control, and patient assessment are presented. Radiographic anatomy of the chest thoracic and abdominal cavities is included.

**HSCU2004**  
**CLINICAL EDUCATION II**  
**Credits (Min/Max): 2/2**

This course provides competency based clinical instruction in examination of the chest, abdomen, shoulder girdle, and bony thorax.

**HSCU2005**  
**RADIOLOGIC TECHNOLOGY III**  
**Credits (Min/Max): 2/2**

This course provides instruction and investigation into Medical Ethics & Law as well as Radiographic Technique. Information is provided on the controlling and influencing factors of radiographic technique formation, comparison, and conversion. An introduction to radiographic physics is included in this course.

**HSCU2006**  
**CLINICAL EDUCATION III**  
**Credits (Min/Max): 2/2**

This course provides competency based clinical instruction in examination of the pelvis, hips and spine.

**HSCU2007**  
**RADIOLOGIC TECHNOLOGY IV**  
**Credits (Min/Max): 2/2**

The biologic hazards of radiation are emphasized in the Radiobiology portion of this course. The Radiation Protection segment provides in-depth information on the concepts of radiation detection, measurement, patient and radiographer protection, agencies, and regulations. The Patient Care portion of the course focuses on contrast media, radiographic pharmacology, medical emergencies, and venipuncture instruction and certification.

**HSCU2008**  
**CLINICAL EDUCATION IV**  
**Credits (Min/Max): 2/2**

This course provides competency based clinical instruction in examination of the skull, facial bones, and paranasal sinuses.

**HSCU2009**  
**RADIOLOGIC TECHNOLOGY V**  
**Credits (Min/Max): 2/2**

This course provides information on the equipment and physics of x-ray production, and quality control requirements. Special imaging methods and alternate imaging modality equipment will be presented.

**HSCU2010**  
**CLINICAL EDUCATION V**  
**Credits (Min/Max): 2/2**

This course provides competency based clinical instruction in radiographic examinations of the digestive, urinary, hepatobiliary, and respiratory systems as well as the soft tissues of the neck. Formal film critique is also presented.

**HSCU2011**  
**RADIOLOGIC TECHNOLOGY VI**  
**Credits (Min/Max): 2/2**

Information on various pathologic conditions and their impact on the radiographic process is presented in this summer session.

**HSCU2012**  
**CLINICAL EDUCATION VI**  
**Credits (Min/Max): 2/2**

This course provides competency based clinical instruction in radiographic examinations of the endocrine, circulatory, nervous, and reproductive system, as well as on arthrography.

**HSCU2013**  
**RADIOLOGIC TECHNOLOGY VII**  
**Credits (Min/Max): 2/2**

Students in the A.S. program in radiologic technology enroll for 26 credits in radiologic technology principles and clinical practice. Portions of this internship are taught each semester, for six consecutive semesters (fall, spring and summer of years 1 and 2). This is the final culminating course.

**HSCU3015**  
**BIOLOGY OF AGING**  
**Credits (Min/Max): 3/3**

This course explores the anatomical and physiological changes associated with human aging. What is aging, lifespan, theories of aging, and evolution and aging will also be discussed.

PreRequisites: BIOL1023 - ANATOMY & PHYSIOLOGY I

**HSCU3018**  
**PATHOLOGY OF INFECTIOUS DISEASES**  
**Credits (Min/Max): 3/3**

This course is an examination of how microbial infections cause damage, symptoms and disease in the human body. We will focus on the impact of pathogenic microbes and microbial products on various human body cells, tissues, organs and systems. The course expands on basic principles of pathogenesis introduced in the prerequisite microbiology course and will relate those principles to human pathophysiology.

PreRequisites: BIOL1015 - MICROBIOLOGY FOR HEALTH SCIENCES

**HSCU3021**  
**HUMAN PATHOPHYSIOLOGY I**  
**Credits (Min/Max): 3/3**

The course will examine the causes, evolution, morphological changes, clinical manifestations, and diagnosis of diseases. Representative disorders of the integument, musculoskeletal, nervous, and endocrine systems will be studied.

PreRequisites: BIOL1024 - HUMAN ANATOMY & PHYSIOLOGY II

**HSCU3025**  
**EXERCISE PHYSIOLOGY & SPORTS NUTRITION**  
**Credits (Min/Max): 3/3**

This course is designed to introduce students to the basic principles Sports Nutrition and Exercise Physiology with an emphasis on wellness promotion throughout life.

PreRequisites: BIOL1024 - HUMAN ANATOMY & PHYSIOLOGY II

**HSCU3041**  
**HUMAN PATHOPHYSIOLOGY II**  
**Credits (Min/Max): 3/3**

This course is a continuation of the study of human pathophysiology. It will examine the causes, evolution, morphological changes, clinical manifestations, and diagnosis of representative diseases of the endocrine, cardiovascular, respiratory, renal, digestive, and reproductive systems.

PreRequisites: BIOL1024 - HUMAN ANATOMY & PHYSIOLOGY II

**HSCU3045**  
**PHARMACOLOGY FOR HEALTH SCIENCE**  
**Credits (Min/Max): 3/3**

This course is designed to introduce the student to the pharmacokinetics and pharmacodynamics of drug therapy with emphasis on the actions, interactions, adverse effects and care implications of each classification of drugs used to treat clients and patients with diseases of body systems. The organization of the central nervous system and autonomic nervous system will be described. Drug metabolism and elimination will also be discussed. Related topics includes lifespan considerations, economics, legal and ethical aspects of drug administration and client/patient education.

PreRequisites: BIOL1015 - MICROBIOLOGY FOR HEALTH SCIENCES

**HSCU3050**  
**HEALTH ASSESSMENT IN HEALTH SCIENCES**  
**Credits (Min/Max): 3/3**

This course focuses on health assessment, health promotion, and disease prevention for major health concerns of individuals throughout the life span. Emphasis will be on developing the student's ability to create an in-depth health history and health risk profile, and to perform physical assessment of clients of varying ages. Evidence-based screening tests for early detection of disease, immunizations and prophylaxis to prevent disease and counseling to modify risk factors that lead to disease will be explored.

PreRequisites: BIOL1015 - MICROBIOLOGY FOR HEALTH SCIENCES

**IDSN1011**  
**INTERIOR GRAPHICS I**  
**Credits (Min/Max): 3/3**

An introduction to the drafting techniques that are used by the interior designers to represent built environments, as well as the components found in them, with scale drawings. Instruction focuses on understanding concepts and developing the skills needed to produce manually-generated and computer-generated drawings, architectural lettering, and drawing composition.

**IDSN1020**  
**INTERIOR DESIGN I**  
**Credits (Min/Max): 3/3**

An introductory course in interior design theory, principles, and processes, which are applied to spaces with simple design programs where people live and work.

PreRequisites: IDSN1011 - INTERIOR GRAPHICS I

**IDSN1021**  
**INTERIOR DESIGN GRAPHICS II**  
**Credits (Min/Max): 3/3**

A continuation of Interior Design Graphics I. This course focuses on three-dimensional drawing techniques using both manual and computer methods. Course content includes perspective construction, freehand sketching, drawing delineation, introduction to rendering, and presentation graphics (e.g., board compositions and layout, reproduction methods).

PreRequisites: IDSN1011 - INTERIOR GRAPHICS I

**IDSN1023**  
**DRAWING I(GCDN1023)**  
**Credits (Min/Max): 3/3**

A study-workshop in the language of drawing including practice in expression and communication in various media utilizing principles of line, tone gesture, exaggeration and lighting. Cross-listed with GCDN1023

**IDSN1060**  
**FOUNDATION DESIGN I(GCDN1060)**  
**Credits (Min/Max): 3/3**

An introductory course in the creative process, the principles of design and elements of art, which are fundamental to all two and three dimensional design pursuits. Studio projects will explore the relationship between concept and execution, with emphasis on the principles of design and the elements of line, shape, value, texture, form and space. This course will emphasize the link between foundation design and digital technology by requiring at least one project using the computer and appropriate software. Cross-listed with GCDN1060

**IDSN1062**  
**FOUNDATION DESIGN II(GCDN1062)**  
**Credits (Min/Max): 3/3**

An extension of the study of issues initiated in IDSN1060 Foundation Design I, with the addition of new areas of inquiry. Student skills will be expanded and refined in such formal visual concerns as color systems, historical style conventions, special systems, optical illusions, and manipulation of form. *Cross-listed with GCDN1062*

PreRequisites: IDSN1060 - FOUNDATION DESIGN I(GCDN1060)

**IDSN2015**  
**COMPUTER GRAPHICS FOR ID**  
**Credits (Min/Max): 3/3**

An advanced skills course in computer-aided design (CAD) and other computer graphic software programs. This course builds upon principles, concepts, and techniques learned in IDSN1011-Interior Graphics I and IDSN1021-Interior Graphics II for designing with two-and-three dimensional computer-aided drafting software. Students are provided with extensive hands-on experience to familiarize themselves with the capabilities of the computer and the graphic programs that are commonly used in interior design practice.

PreRequisites: IDSN1021 - INTERIOR DESIGN GRAPHICS II

**IDSN2032**  
**HISTORY OF ID & ARCHITECTURE I**  
**Credits (Min/Max): 3/3**

A survey of interiors and architecture from the ancient world through the gothic period. Emphasis is on understanding the development of our consciousness of space and the relationship between plan development, structural concepts, technology and materials.

**IDSN2035**  
**INTERIOR PHOTOGRAPHY**  
**Credits (Min/Max): 3/3**

An investigation into the special concerns of architectural photography and the use of the camera as a design tool. Students photograph existing interiors, work in progress and design projects in model and drawing form.

PreRequisites: IDSN1060 - FOUNDATION DESIGN I(GCDN1060)

**IDSN2037**  
**TEXTILES FOR INTERIORS**  
**Credits (Min/Max): 3/3**

A thorough investigation into the history, manufacture, application and installation of fibers and fiber-based products used in interior spaces. Criteria for evaluating performance, compliance with fire and building codes, and impact on the environment are discussed. Prereq: IDSN2046, none for 3-yr acc., IDSN1020 for 5-yr

PreRequisites: IDSN2046 - BUILDING TECH II:FINISH MATERIAL

#### **IDSN2038A**

##### **INTERIOR DESIGN II(A)**

**Credits (Min/Max): 3/3**

An investigation of the design process with emphasis on basic programming tools, concept development and the relationship between form, function and place-making. Design projects, emphasizing commercial with at least one residential, range in size up to 6000 square feet. Project organization is from simple to complex in each semester.

#### **IDSN2038B**

##### **INTERIOR DESIGN II(B)**

**Credits (Min/Max): 3/3**

An investigation of the design process with emphasis on basic programming tools, concept development and the relationship between form, function and place-making. Design projects, emphasizing commercial with at least one residential, range in size up to 6000 square feet. Project organization is from simple to complex in each semester.

PreRequisites: IDSN2038A - INTERIOR DESIGN II(A)

#### **IDSN2038C**

##### **INTERIOR DESIGN II(C)**

**Credits (Min/Max): 3/3**

An investigation of the design process with emphasis on basic programming tools, concept development and the relationship between form, function and place-making. Design projects, emphasizing commercial with at least one residential, range in size up to 6000 square feet. Project organization is from simple to complex in each semester.

#### **IDSN2039**

##### **HISTORY OF ID & ARCHITECTURE II**

**Credits (Min/Max): 3/3**

A survey of interiors and architecture from the Renaissance through the 18th century, with special emphasis on styles and furniture.

PreRequisites: ENGL1012 - COLLEGE WRITING II

#### **IDSN2044**

##### **BUILDING TECH I: CONSTRUCTION**

**Credits (Min/Max): 3/3**

An overview of architectural building systems that affect the responsibilities and decisions of interior designers and facility managers. Emphasis is placed on structural systems and architectural components of buildings (e.g., floors, walls, ceilings, doors, windows, moisture protection, etc.) as well as relevant vocabulary, codes, and environmental concerns.

PreRequisites: IDSN1021 - INTERIOR DESIGN GRAPHICS II

#### **IDSN2045**

##### **ARCHITECTURAL RENDERING**

**Credits (Min/Max): 3/3**

An advanced course in the delineation of the interior space. Emphasis is on the development of individual style and expanded technical rendering knowledge.

PreRequisites: IDSN1021 - INTERIOR DESIGN GRAPHICS II

#### **IDSN2046**

##### **BUILDING TECH II:FINISH MATERIAL**

**Credits (Min/Max): 3/3**

The study of finish materials as they pertain to interior spaces. Materials are investigated in relation to their installation on floors, walls, and ceilings. Criteria for evaluating performance under differing conditions, compliance with fire and building codes, and impact on the environment are discussed. Conventional and innovative uses of finish materials to enhance design concepts are explored.

PreRequisites: IDSN1021 - INTERIOR DESIGN GRAPHICS II

#### **IDSN2048**

##### **FURNITURE & CUSTOM DETAILING**

**Credits (Min/Max): 3/3**

A studio course that provides instruction and hands-on experiences related to the materials, design, and construction techniques of furniture, cabinetry, and millwork detailing.

PreRequisites: IDSN2038A - INTERIOR DESIGN II(A)

**IDSN2050**  
**DIRECTED STUDY**  
**Credits (Min/Max): 1/3**

This directed study opportunity meets the needs of students who require individual help with specific aspects of their major that cannot be sufficiently addressed by an existing course.

**IDSN3010**  
**WRITING & PRESENTING FOR DESIGNERS(GCDN3010)**  
**Credits (Min/Max): 3/3**

This course will explore various writing techniques that are specific to the fields of Graphic & Communication Design and Interior Design and will include: copy and headlines, press releases, web page texts, television & radio commercial messages, design briefs and presentation notes. Students will learn effective ways to make presentations to clients in both individual and creative team situations, as well as practice their ability to articulate design concepts to an audience. In addition to being beneficial to Graphic Design and Interior Design students, the course could be offered to marketing, information systems technology and other programs beginning in the fall of 2010. Cross-listed with GCDN3010

PreRequisites: ENGL1012 - COLLEGE WRITING II

**IDSN3015**  
**STUDY OF GREAT AMERICAN HOUSES**  
**Credits (Min/Max): 3/3**

A study of great houses in the United States from early salt boxes to Mies' Farnsworth House. Emphasis is placed on historic context and each structure's contribution to contemporary residential design.

**IDSN3028A**  
**INTERIOR DESIGN III(A)**  
**Credits (Min/Max): 3/3**

An investigation into the development of complex interior spaces. Students are encouraged to develop a holistic approach to the design process as they learn to integrate design, technical, regulatory, and budgetary issues. Design projects that emphasize commercial and adaptive reuse, and one residential project, range in size from 5,000 to 10,000 square feet.

PreRequisites: IDSN2038B - INTERIOR DESIGN II(B)

**IDSN3028B**  
**INTERIOR DESIGN III(B)**  
**Credits (Min/Max): 3/3**

An investigation into the development of complex interior spaces. Students are encouraged to develop a holistic approach to the design process as they learn to integrate design, technical, regulatory, and budgetary issues. Design projects that emphasize commercial and adaptive reuse, and one residential project, range in size from 5,000 to 10,000 square feet.

PreRequisites: IDSN3028A - INTERIOR DESIGN III(A)

**IDSN3032**  
**HISTORY OF ID & ARCHITECTURE III**  
**Credits (Min/Max): 3/3**

Survey of nineteenth and twentieth century interiors and architecture in Europe and the United States. Special emphasis is placed on designers and their contribution to contemporary American environment. Prereq: IDSN2039 recommended.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**IDSN3040**  
**BUILDING TECH III: LIGHTING & ELECTRICAL**  
**Credits (Min/Max): 3/3**

Fundamentals of lighting design and an overview of power distribution and communications systems pertinent to interior spaces. Technical aspects of lighting, its effect on behavior and perceptions of space, color, and finish materials, and environmental concerns specific to lighting are examined. Current issues relative to power distribution and telecommunication systems are incorporated. Emphasis is on the application of technical knowledge to design projects and the management of the workplace.

PreRequisites: IDSN2038A - INTERIOR DESIGN II(A)

**IDSN3041**  
**BUILDING TECH IV: CONTROL SYSTEMS**  
**Credits (Min/Max): 3/3**

An overview of mechanical (HVAC), plumbing, fire detection and suppression, acoustic, security, and transportation systems as they relate to the design and management of interior spaces. Emphasis is given to the application of technical knowledge to indoor air quality and the design of interior environments.

PreRequisites: IDSN2038B - INTERIOR DESIGN II(B)

**IDSN3053**  
**WAYFINDING & ENVIRONMENTAL GRAPHIC DESIGN(GCDN3053)**  
**Credits (Min/Max): 3/3**

Introduction to the study and practice of Environmental Graphic Design (EGD) with an emphasis on understanding visual communication and information systems for navigating and experiencing the built environment. The course will cover theory and practical application of topics related to EGD including: principles of wayfinding, study of three-dimensional design and exploration of typography, symbols, identity and information design in the public space. Cross-listed with GCDN3053

PreRequisites: GCDN1071 - COMPUTER GRAPHICS II

**IDSN3055**  
**KITCHEN AND BATH DESIGN**  
**Credits (Min/Max): 3/3**

An elective interior design course that provides the opportunity for studying the fundamentals of kitchen and bath design. Aspects of technology, accessibility and applicable building codes will be examined. Material, equipment and finish selection, cabinetry detailing and the integrations of lighting, electrical and mechanical systems will be explored.

PreRequisites: IDSN2038A - INTERIOR DESIGN II(A)

**IDSN3059**  
**ADVANCED IDEAS SEMINAR IN ID**  
**Credits (Min/Max): 1/3**

An open-ended seminar dealing with various aesthetic questions pertinent to the student's needs. Occasional field trips and guest speakers are included in the course activities.

PreRequisites: IDSN2038A - INTERIOR DESIGN II(A)

**IDSN4041**  
**BUSINESS PRACTICES FOR ID**  
**Credits (Min/Max): 3/3**

Professional aspects concerning the practice of interior design including such topics as estimation, trade relations, contracts and office procedures and organization.

PreRequisites: IDSN2038B - INTERIOR DESIGN II(B)

**IDSN4042**  
**CONTRACT DOCUMENTS**  
**Credits (Min/Max): 3/3**

A basic course in working drawings and their development in conjunction with specifications. Students examine conventions, techniques and layout by producing a full set of architectural drawings for a small design project. Specifications are written to support the drawings.

PreRequisites: IDSN2044 - BUILDING TECH I: CONSTRUCTION

**IDSN4051**  
**INTERIOR DESIGN-INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A practical work experience in a field setting. The student receives credit for work performed in the area of interior design.

**IDSN4052**  
**INTERIOR DESIGN-INTERNSHIP II**  
**Credits (Min/Max): 1/3**

A practical work experience in a field setting. The student receives credit for work performed in the area of interior design.

PreRequisites: IDSN4051 - INTERIOR DESIGN-INTERNSHIP I

**IDSN4057**  
**INTERIOR DESIGN-INDEPENDENT STUDY**  
**Credits (Min/Max): 1/3**

This course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area of interior design.

**IDSN4058**  
**PORTFOLIO PREPARATION**  
**Credits (Min/Max): 3/3**

Instruction and guidance in the preparation of a professional portfolio. Prerequisite: senior status in interior design major.

PreRequisites: IDSN3028A - INTERIOR DESIGN III(A)

**IDSN4059**  
**SENIOR DESIGN SEMINAR I**  
**Credits (Min/Max): 3/3**

Principles and techniques of interior design research are applied to a design issue that is selected by a student and approved by interior design faculty. Students present oral and visual documentation of their research to design practitioners. In the last several weeks, students apply the semester's research to a design program and site identification that provide the basis for the design project realized in IDSN4060 Senior Design Seminar II.

PreRequisites: IDSN2044 - BUILDING TECH I: CONSTRUCTION

**IDSN4060**  
**SENIOR DESIGN SEMINAR II**  
**Credits (Min/Max): 3/3**

Building on the research knowledge and design program evolved in IDSN40459 Senior Design Seminar I, as well as all previous experiences in the interior design curriculum, a student generates a fully developed design solution that is documented with drawings and/or models. Students present their work at the end of the semester to a design jury.

PreRequisites: IDSN4059 - SENIOR DESIGN SEMINAR I

**INMT3039**  
**INTERNATIONAL BUSINESS MGMT**  
**Credits (Min/Max): 3/3**

An introduction to international business management with particular emphasis on the field of international finance and economics. In addition, the course deals with problems in the area of finance, marketing, production and organization, both from the perspective of the multinational corporation and the domestic corporation trading in international markets.

**INMT3049**  
**INT'L MKT & EXPORT MGMT (MRKT3049)**  
**Credits (Min/Max): 3/3**

An upper level course focusing on key management functions in international marketing: entry strategies, product and pricing politics, financing, promotion and distribution. The course will also concentrate on export management that is the major international activity of most small and medium-sized companies. *Cross-listed with MRKT3049*

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

**INMT4040**  
**TOPICS AND ISSUES IN INTERNATIONAL MANAGEMENT**  
**Credits (Min/Max): 3/3**

This course will provide an in-depth examination of selected topics and issues in the field of international management.

**INMT4046**  
**INTERNATIONAL FINANCE**  
**Credits (Min/Max): 3/3**

A growing number of firms engage in various types of international financial transactions. This course focuses on international financial management issues such as foreign exchange markets, international capital markets such as Eurobond markets and international banks, international banking and international risk analysis.

PreRequisites: FINC3032 - FINANCIAL MANAGEMENT

**INMT4048**  
**INTERNATIONAL LEGAL ENVIRONMENT (INST4048)**  
**Credits (Min/Max): 3/3**

This course introduces concepts of international laws of contracts, sales and negotiable instruments. It also provides an overview of problems related to dispute settlement in international business and governmental administrative conflicts that restrict commerce between residents of different nations. *Cross-listed with INST4048*

PreRequisites: ADMG2009 - BUSINESS LAW I

**INMT4051**  
**INTERNATIONAL MANAGEMENT- INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A field experience in an international management position under the direction of a field supervisor and a faculty member. The internship is designed to offer the student an opportunity to acquire work experience in an international business environment.

PreRequisites: INMT3039 - INTERNATIONAL BUSINESS MGMT



**INMT4052****INTERNATIONAL MANAGEMENT- INTERNSHIP II****Credits (Min/Max): 3/3**

A field experience in an international management position under the direction of a field supervisor and a faculty member. The internship is designed to offer the student an opportunity to acquire work experience in an international business environment.

PreRequisites: INMT3039 - INTERNATIONAL BUSINESS MGMT

**INMT4057****INTERNATIONAL MGMT-INDEPENDENT STUDY****Credits (Min/Max): 3/3**

The independent study is intended to give an opportunity to students with superior ability to pursue an area of study in international management that is very specific in focus and/or not covered in existing offerings.

**INST2001****GLOBAL POLITICS(POLI2001)****Credits (Min/Max): 3/3**

This is an introductory course in the field of international relations, providing an overview of major theories and concepts of international relations and an historical background for contemporary world politics. Major topics include the contemporary international system, economic development, foreign policy behavior, international conflicts and international institutions. *Cross-listed with POLI2001*

**INST2011****WORLD GEOGRAPHY(GEOG2011)****Credits (Min/Max): 3/3**

A study of the interactions between human beings and the land, and the influence of geography in shaping work and culture throughout the world. Cross-listed with GEOG2011

**INST3001****INTERNATL ORG & THE LEGAL FRAMEWORK OF INTERNATL AFFAIRS****Credits (Min/Max): 3/3**

An overview of major theories of international political economy including a more detailed understanding of the fast growing economic and institutional infrastructure of the international system. Topics include the development of intergovernmental and non-governmental international organizations (IGOs and NGOs), international treaties and laws governing trade and business practices, and mechanisms for the resolutions of international disputes.

**INST3003****INTN'L POLITICAL ECONOMY (ADMG3003)****Credits (Min/Max): 3/3**

An overview of major theories of international political economy including a more detailed understanding of the fast growing economic and institutional infrastructure of the international system. Topics include the development of intergovernmental and non-governmental international organizations (IGOs and NGOs), international treaties and laws governing trade and business practices, and mechanisms for the resolutions of international disputes. Cross-listed with ADMG3003

PreRequisites: ADMG1005 - MACROECONOMICS

**INST3010****CULTURAL GEOGRAPHY AND THE HUMAN MOSAIC(GEOG3010)****Credits (Min/Max): 3/3**

The many ways in which humans have changed the face of the earth in response to culture is known as the human mosaic. This course applies the major themes of cultural geography to population, language, religion, agriculture and urbanism. A basic knowledge of world geography is assumed. Cross-listed with GEOG3010

**INST3011****RESEARCH METHODS(SOCL3011)****Credits (Min/Max): 3/3**

This course introduces the student to the design of explanatory models in the field of international relations, methods for literature surveys and more commonly used quantitative and qualitative analytical techniques. Cross-listed with SOCL3011

PreRequisites: MATH1040 - PROBABILITY & STATISTICS

**INST3013****GEOGRAPHY & WORLD AFFAIRS (GEOG3013)****Credits (Min/Max): 3/3**

An overview of various regions of the world and the environmental conditions to which people adapt. Racial, linguistic, religious and economic groupings of people will be stressed. Current world events are examined to develop knowledge about historical, geographic, climatic, political and religious environments which people inhabit. Cross-listed with GEOG3013

**INST3021**  
**COMPARATIVE GOVERNMENT(POLI3021)**  
**Credits (Min/Max): 3/3**

This course focuses on the government, policies and politics of different nation-states around the world, and investigates the political science approaches to studying government and politics in different parts of the world. The focus is not only on forms of governments, but also the major political and social factors that affect political change in different world areas, the relationship between states and societies, and the comparative study of democratic and non-democratic nations. Cross-listed with POLI3021

**INST3023**  
**MODERN U.S. DIPLOMATIC HISTORY (HIST/POLI3023)**  
**Credits (Min/Max): 3/3**

This course presents a study of the major developments in American diplomatic history. Special emphasis is placed on the years from World War II until the present. Major international developments and their effects on American diplomacy are discussed along with the impact of various presidents and the influence of the United Nations. The interrelation between foreign policy and domestic opinion is also examined. Cross-listed with HIST/POLI3023

**INST3025**  
**DEVELOPMENT:POLITICAL,SOCIAL & ECONOMIC ISSUES(POLI3025)**  
**Credits (Min/Max): 3/3**

A study of the political, social, and economic realities of Latin America, Asia, and Africa. Emphasis is placed on ecological, racial, ethnic, and population problems, as well as on the legacy of colonialism, developmentalism, and dependency. Human rights and special problems of women will also be addressed. Cross-listed with POLI3025

**INST3027**  
**HISTORY OF MODERN EUROPE (HIST3027)**  
**Credits (Min/Max): 3/3**

A survey of modern European history (beginning with the turn of the century) that is intended to provide global awareness and an appreciation of the accomplishments of other cultures. This course also provides a particular perspective of the American way of life as it has been influenced by European cultures. Cross-listed with HIST3027

**INST3028**  
**EAST ASIAN HISTORY (HIST3028)**  
**Credits (Min/Max): 3/3**

An overview of the history of Korea, Japan, China, Singapore, Taiwan, Hong Kong, and Malaysia. The domestic, political, social, and economic bases of the historical development of these nations will be considered. Political influences of other world powers will be considered. Cross-listed with HIST3028

**INST3033**  
**AMERICAN FOREIGN POLICY (POLI3033)**  
**Credits (Min/Max): 3/3**

The reasons behind the foreign policy decisions of the U.S. government in recent decades are examined; different theories are explored for explaining shifts and continuities in foreign policy decision-making. Contemporary challenges to American foreign policy, from Iraq and security threats to peace-making efforts in the Middle East, are analyzed. Cross-listed with POLI3033

**INST4048**  
**INTERNATIONAL LEGAL ENVIRONMENT (INMT4048)**  
**Credits (Min/Max): 3/3**

This course introduces concepts of international laws of contracts, sales and negotiable instruments. It also provides an overview of problems related to dispute settlement in international business and governmental administrative conflicts that restrict commerce between residents of different nations. Cross-listed with INMT4048

PreRequisites: ADMG2009 - BUSINESS LAW I

**INST4055**  
**SENIOR SEMINAR IN INTERNATIONAL STUDIES**  
**Credits (Min/Max): 3/3**

This is the capstone course for all international studies students. It will be the vehicle for students to synthesize their knowledge of international relations through the development of individual research endeavors in a special topic relevant to their respective concentration areas. Students will have the opportunity to discuss and share their research with fellow students in a seminar format.

**INST4057**  
**INTERNATIONAL STUDIES- INDEPENDENT STUDY**  
**Credits (Min/Max): 1/3**

Students work independently with a faculty member on a topic of relevant interest to the advanced student pursuing a major in International Affairs.

#### **ISTC1005**

##### **PRACTICAL COMPUTER APPLICATIONS**

**Credits (Min/Max): 3/3**

This course provides the student with hands-on use of personal computers and Microsoft Office 2010. Email etiquette and management as well as effective and efficient access and evaluation of information from the Internet are also introduced. Emphasis is on learning the concepts and skills necessary to complete the task at hand using the computer, related software, and the Internet. While learning the keystrokes is important, equally important is using the right tool for the right job. Word processing, electronic spreadsheets, graphic presentations, and the Windows Operating environments including file and folder management are presented in this course.

#### **ISTC1006**

##### **ADVANCED PRACTICAL COMPUTER APPLICATIONS**

**Credits (Min/Max): 3/3**

This user-oriented course is for students who already understand the fundamentals of PC-compatible functions of Microsoft Windows and the Microsoft Office Suite software, Word, Excel, Access, and Power Point. This course provides the student with an introduction to the advanced features and functions of PC-compatible computer software, in general, and Microsoft Windows and Microsoft Office Suite in particular. Through coverage of the advanced features of those programs, the student will acquire the solid working knowledge of them required of today's professionals. In addition, the course will improve the student's working knowledge and proficiency with the basics of those programs. The course also provides peripheral coverage of the major components of management information systems and decision support systems.

#### **ISTC1021**

##### **PROBLEM SOLVING**

**Credits (Min/Max): 3/3**

This course provides step-by-step progression, with detailed explanations and many illustrations, from the basic of mathematical functions and operations to the design and use of such techniques as codes, indicators, control-breaks, arrays, pointers, file updates, report handling, data structures, and object-oriented programming. The tools of problem solving, including decision tables and trees, structure charts, IPO charts, algorithms, and flow-charts are demonstrated and explained. Throughout the course, typical business problems are presented for solutions, providing excellent experience for the students.

#### **ISTC1025**

##### **COMPUTER HARDWARE**

**Credits (Min/Max): 3/3**

This course provides both a theoretical and a hands-on, detailed, progressive examination of personal (PC) computer system hardware, both stand alone personal computers and distributed-data/networking hardware. Throughout the course, the concepts discussed, and the hardware-related problems presented for discussion and solution, are typical of the knowledge required to work with personal and business-world computer hardware applications, providing excellent experience for the students.

#### **ISTC2005**

##### **IT: A GLOBAL PERSPECTIVE**

**Credits (Min/Max): 3/3**

This course provides students with an introductory and general examination of computer-based systems and users as they exist throughout the world. A particular focus of this course is providing students with an overview of information technology, as it exists in both the developing as well as the developed world. To this end, students will examine computer use trends, industry trends, economic and resource patterns, employment trends and cultural patterns that affect or are affected by information technology.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

#### **ISTC2008**

##### **INTRO TO CYBERSPACE**

**Credits (Min/Max): 3/3**

This course introduces the students to the virtual world of the Internet. The course will focus on the vast array of on-line informational resources available through the Internet. Students will have the opportunity to work with the tools necessary to navigate through the net as well as develop web pages. Implications of the Internet, such as security and privacy, as well as future trends will also be discussed.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

#### **ISTC2021**

##### **MGMT OF INFORMATION SYSTEMS**

**Credits (Min/Max): 3/3**

This course provides discussion and analysis of current issues related to the management of information systems. Major areas analyzed include knowledge workers and their impact on an organization; information technology as an organizational resource; virtual marketplaces; network management and data modeling.

**ISTC2025****COMPUTER-BASED TRAINING & DL****Credits (Min/Max): 3/3**

This course focuses on the design, development and evaluation of computer and web-based training systems. An introduction to instructional design theory as it relates to computer and web-based instruction will be included. Additionally, this course will focus on the advantages and disadvantages of electronic educational communication.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

**ISTC2030****NETWORKING****Credits (Min/Max): 3/3**

This course provides students with an introductory examination of computer-based networked environments. Of particular interest in this course is providing students with both a conceptual as well as an applied understanding of networks and networking. Students will be introduced to the organizational framework in which networking exists. Additionally, students will have the opportunity to explore networking on practical and applied levels so that issues such as hardware and software solutions and applications, as they relate to networked environments, will be examined.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

**ISTC2045****DATA BASE MANAGEMENT SYSTEMS****Credits (Min/Max): 3/3**

This course provides the basic knowledge required to operate and use a computer to perform the practical tasks of data file creation, retrieval of data and maintenance of data files. DBMS's are used for all types of applications involving medium-to-large scale data files. Major focus is on the acquisition of a working knowledge of the theories, principles and operating procedures of data base management systems using a representative DBMS. This course is appropriate for all potential users of computers in all fields of study.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

**ISTC2050****DISTRIBUTED DATA PROCESSING****Credits (Min/Max): 3/3**

In this course the features and operation of centralized, decentralized and distributed data processing systems are examined. The impact of distributed systems on the business enterprise is examined. Technology implications of computer hardware, software and communications are discussed in relationship to the design, development and implementation of distributed data processing systems.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

**ISTC3000****ADVANCED COMPUTER HARDWARE****Credits (Min/Max): 3/3**

This course provides students with a more sophisticated and detailed examination of personal computer (PC) systems hardware with particular emphasis on distributed-data/networking hardware. Of particular interest in this course is the development of an expert awareness of the issues and technologies that currently serve and are most likely to continue to serve the computer-user community.

**ISTC3005****LEGAL ISSUES & INFO TECH****Credits (Min/Max): 3/3**

This course provides students with an introduction to and overview of those fundamental legal issues that are pertinent to the acquisition and deployment of information technology. Students will be given an overview of local, federal and international legal systems and their relationship to intellectual, civil and criminal legal principles as they apply to information technology.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

**ISTC3008****WEB PAGE USABILITY & PROGRAMMING****Credits (Min/Max): 3/3**

This course offers a comprehensive analysis of Web sites. Emphasis will be on the development of interactive web pages and the interpretation of data gathered from visitors for presentation to web site owners. Web sites will be loaded on to a network and evaluated for functionality, effectiveness and delivery of data exchange. The emphasis of this course is to produce dynamic, interactive web pages that will integrate with databases.

**ISTC3010****IT SERVICES ADMINISTRATION****Credits (Min/Max): 3/3**

This course offers a comprehensive investigation of the duties and responsibilities of an Information Technologist. Four areas of concern for the IT specialist in this capacity are: Help Desk support, Web Page Support, Training and Development and Customer/Service Relationships. During this course, the student will participate in the on campus Student to Student Help Desk.

### **ISTC3015**

#### **HUMAN-COMPUTER INTERACTION**

**Credits (Min/Max): 3/3**

This course is an introduction to the interdisciplinary field of human-computer interaction (HCI). The study of HCI focuses on the interaction between users and their computer systems. The course also examines the implications and effects of human-computer interaction in and for society; conversely, the course explores ways that society influences human-computer interactions. Analysis of interface design will be included, in the context of evaluation and evolution of usability.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

### **ISTC3020**

#### **COMPUTER PROGRAMMING:COBOL**

**Credits (Min/Max): 3/3**

This course introduces the student to computer programming using the COBOL (Common Business Oriented Language) programming language. The conventions of the language, its applications and applications-related advantages and disadvantages are presented. The course develops the student's proficiency in understanding and applying the problem-solving logic, methods and procedures of programming in this language, and of programming in general. This course is appropriate for all potential users of computers in business-related fields of study.

PreRequisites: ISTC1021 - PROBLEM SOLVING

### **ISTC3028**

#### **SCRIPTING FOR THE WEB I**

**Credits (Min/Max): 3/3**

An introduction to content the student needs to create effective and interactive Web sites. Discover the integration of Web authoring tools and XHTML, HTML, Cascading Style Sheets (CSS) and web site design best practices to promote a successful site. This course will use the latest scripting language for websites. Revisit topics of ISTC2008 Intro to Cyberspace and introduce more advanced techniques involving hyperlinks, embedded objects, and multimedia activity in the web site.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

### **ISTC3030**

#### **LINUX**

**Credits (Min/Max): 3/3**

This course provides a hands-on, step-by-step, progressive examination of the Linux/UNIX operating system. The student will explore Linux/UNIX commands, the various shells used in Linux/UNIX, and some of the applications available in Linux/UNIX, including X Windows and a variety of productivity applications (word processing, spreadsheet program(s), data base management system program(s) et al). Throughout the course, OS-related problems presented for solution are typical of personal and business-world applications of the OS, providing excellent experience for the students.

### **ISTC3031**

#### **ADVANCED NETWORKING & TELECOM**

**Credits (Min/Max): 3/3**

This course builds on the foundation knowledge of ISTC2030 Networking. The content will help the student design, install, maintain and administer networks with confidence. Networking is an extraordinarily complex topic that is evolving daily, requiring skills to evaluate and compare new technologies; this course offers the student a framework for success in network topologies.

PreRequisites: ISTC2030 - NETWORKING

### **ISTC3034**

#### **PROGRAMMING IN JAVA**

**Credits (Min/Max): 3/3**

This course introduces the student to computer programming using the cross-platform Java programming language. The conventions of the language, its applications and applications-related advantages and disadvantages are presented. Students will be introduced to the concepts and techniques of Object-Oriented Programming (OOP).

PreRequisites: ISTC1021 - PROBLEM SOLVING

### **ISTC3046**

#### **ADV DATA BASE MGMT SYSTEMS**

**Credits (Min/Max): 3/3**

This course focuses on an investigation and application of advanced data base concepts including data administration, data base technology and selection and acquisition of data base management systems (DBMS). It includes an in-depth practicum in data modeling and system development in a data base environment.

PreRequisites: ISTC1005 - PRACTICAL COMPUTER APPLICATIONS

**ISTC4042**  
**SYSTEMS ANALYSIS & DESIGN**  
**Credits (Min/Max): 3/3**

This course is a comprehensive examination of systems and design theory and principle, including application of systems analysis and design to real world situations. Also investigated: the various relationships of computer hardware and software to systems analysis and design; how computer hardware and software affect the design of computer information systems. The course proceeds from a generalized introduction to an analysis of the systems concept and the systems of life cycle to the design of computer information systems.

**ISTC4051**  
**INFORMATION SYSTEMS TECHNOLOGY- INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A field experience in an information systems position, supervised by a field supervisor as well as college faculty. The internship is designed to increase understanding of IST and the IST-related issues and perspectives as they relate to the business and social environment.

**ISTC4055**  
**SENIOR SEMINAR**  
**Credits (Min/Max): 3/3**

This is a comprehensive systems course integrating the knowledge and abilities acquired in the IST courses and accounting/administration and management courses in the IST curriculum within a comprehensive system development project.

**LEAD3001**  
**DYNAMICS OF TEAMS**  
**Credits (Min/Max): 3/3**

The purpose of the team building course is to form the cohort into a team that will be supportive of each other. This course provides an examination of team processes, structure, and behavior in organizations. The module places special emphasis on problem solving in-groups, consensus building and using effective team processes and skill development. Students learn decision-making theory and apply those theories as they study the decision-making process. Using an interdisciplinary approach, the module addresses psychological, sociological, political and management approaches to decision-making. The course also focuses on tools used to enhance decision making including cost benefit analysis, responsibility charting and force field analysis.

**LEAD3051**  
**INFORMATION LITERACY**  
**Credits (Min/Max): 3/3**

It is the purpose of this course to introduce students to the fundamental software application skills required to be productive in today's business world. This course provides the critical skills necessary to evaluate and determine useful quality information for decision-making in an organization. Topics such as problem solving, search strategies for research queries, how to identify good quality information, data collection and analysis, and finally effective communication of results will be discussed. Emphasis will be on formatting works cited, and creating charts and graphs and professional PowerPoint presentations.

**LEAD3056**  
**MANAGEMENT & FINANCIAL ANALYSIS**  
**Credits (Min/Max): 6/6**

The course is designed to teach the student how to work and manage diverse groups of people in complex organizations. This course looks at traditional and current philosophies of management, theories of motivation and empowerment, job design, contemporary management theories and recent trends in management. Also the focus will be on external capital sources and processes of financing, accounting principles, short and long term financing, and capital budgeting. It is an introduction to the concepts and the problems associated with management of capital.

**LEAD3061**  
**MACRO-ORGANIZATIONAL BEHAVIOR**  
**Credits (Min/Max): 3/3**

This course examines macro organizational behavior concepts like organizational learning, strategy, structure and design, change management and the role of business and society to the LEAD lexicon. This course will explore, dissect, and distinguish various approaches to employing these concepts as tools to enhance organizational performance. In so doing, we will examine the works of contemporary business writers such as Peter Drucker, Warren Bennis, Jay Conger, Henry Mintzberg, Noel Tichy, Charles Manz, and Peter Senge to name a few.

**LEAD4001**  
**LEADERSHIP & ETHICS**  
**Credits (Min/Max): 3/3**

The business ethics portion of this course provides students with an ethical framework they can apply in the workplace. Students are confronted with ethical issues and taught to resolve them in the organizational context. In addition, students are taught how an individual and an organization can be socially responsible. The leadership portion of this course engages the student in an active exploration of leadership-what is it, and how one develops this trait. To do this, the course emphasizes self-examination and application of leadership concepts as well as surveying various approaches to leadership development and theory.

**LEAD4021**  
**COMMUNICATING CHANGE**  
**Credits (Min/Max): 3/3**

The purpose of this course is to introduce students to theories and practices of effective interpersonal communication and public speaking relevant to organizational settings. Students study theory so that they have an understanding of why communication is central to achieving organizational goals, and why ethical communication is necessary to long-term organizational success. Students learn to apply theory by developing skills in listening, assessing organizational "audience" and barriers to communication, and by researching and giving presentations on social support, networking, and managing conflict. A segment of this course will also address the importance of communicating the change process in an organization. Students will study various approaches to announcing change and implementing change within an organization. Within the Research portion of this course, the student will learn how to develop a survey. The survey must provide solutions to a problem and collect participants' ideas and opinions are the subject. This survey will be distributed and results tabulated and discussed within the remaining courses of this program.

**LEAD4031**  
**HR CONCEPTS & NEGOTIATIONS**  
**Credits (Min/Max): 3/3**

The effective management of human resources is a key requirement for managers in any organization. This course concentrates on legal aspects of managing human resources in an organization. It covers laws that govern employee discrimination, safety and health, family and medical leave issues and termination. In addition, employee job performance measurement and compensation topics are addressed. This course concentrates on the relationship among employers, employees and unions in the private sector. It covers labor history and basic labor law, union organizing and union avoidance, collective bargaining, and contract administration, including labor arbitration.

**LEAD4056**  
**GLOBAL THINKING & E-COMMERCE**  
**Credits (Min/Max): 3/3**

The purpose of the global thinking course is to introduce the LEAD student to methods and implications of thinking on a global level. Multiculturalism will be a major component. The impact of different political systems will be briefly addressed, primarily in the context of how global politics affects business. Finally, the course will address how a business can thrive in a global economy and avoid problems unique to operating management of technology. The increasing recognition of its strategic, competitive value emphasizes the business importance of rethinking IT management.

**LEAD4061**  
**CAPSTONE PROJECT**  
**Credits (Min/Max): 3/3**

This course provides the critical skills necessary to evaluate and determine useful information for decision-making in an organization. The student will have an opportunity to study expert's research. We will explore problem solving, search strategies for research queries, how to identify good quality information, data collection and analysis, and finally effective communication of the results. The Capstone Project will replace current Research Project and should be introduced early in the program and be an ongoing assignment for the cohort. Perhaps, a chapter of an overall paper will be generated after each module, along with the module assignment.

The student will notice that this assignment of this course is spread out over a period of nearly 9 months to do the actual research for the project.

**LRCX1001**  
**LRX:INTRO & HISTORY**  
**Credits (Min/Max): 1/1**

LRCX1001 is the first course in a sequence of four which will introduce new students to the academic experience of four-year colleges in general and La Roche College in particular. Academically, the course will help prepare freshman for collegiate level course work, for career development, and for service through their respective disciplines. It will introduce students to the history and heritage of the entire college community that they have now joined and map out their journey through the LRC experience.

**LRCX1001V**  
**LRX: INTRO & HISTORY-VIRTUAL (LRCX1001)**  
**Credits (Min/Max): 0/0**

LRCX1001V is the first course in a sequence of four which will introduce new students to the academic experience of four-year colleges in general and La Roche College in particular. This is a non credit course designed for transfer students. It will introduce students to the history and heritage of the entire college community that they have now joined and map out their journey through the LRC experience.

**LRCX1002**  
**LRX:DIVERSITY & DISCRIMINATION**  
**Credits (Min/Max): 1/1**

LRCX1002 is the second course in a sequence of four of the LRC Experience. Its focus is on Diversity and Discrimination. Course work to be completed through a series of film & text. Information will be supplied through Blackboard.

**LRCX2001**  
**LRX:REGIONS OF CONFLICT**  
**Credits (Min/Max): 1/1**

LRCX2001 is the third course in a sequence of four in the La Roche Experience. The geographic focus changes with the current world/reality.

**LRCX2002**  
**LRX:ECONOMIC JUSTICE**  
**Credits (Min/Max): 1/1**

LRCX2002 is the fourth course in a sequence of four in the La Roche Experience. Its focus is Economic Justice. Course work is completed through a series of film/text. Other information is provided through Blackboard.

**MATH0010**  
**BASIC MATHEMATICS I++**  
**Credits (Min/Max): 3/3**

A course designed to meet the needs of students demonstrating deficiencies in basic mathematics skills. The course includes a review of the basic operations involving whole numbers, fractions, decimals, percentages, ratio and proportion. Emphasis is placed on problem solving. Course does not apply toward college graduation credit requirements.

**MATH0010L**  
**BASIC MATHEMATICS I-LAB**  
**Credits (Min/Max): 0/0**

This is the lab component of Basic Mathematics, the lecture component of which is designated MATH0010 Basic Mathematics. Students follow the MyFoundationsLab customized Learning Path determined by their performance on the Accuplacer® Diagnostic Test in Arithmetic. The individualized Learning Path targets those arithmetic skills necessary for college-level course work that require improvement. Students earn either a P(ass) or an F(ailure) depending on their performance. This course does NOT count toward college-graduation credit requirements. In order to pass Basic Mathematics students must earn not only a grade of P in this lab but also a grade of B or higher in the lecture (MATH0010).

**MATH0015**  
**BEGINNING ALGEBRA++**  
**Credits (Min/Max): 3/3**

This course is intended for students studying algebra for the first time and for those who need a review of basic algebra before taking college algebra. The topics to be covered are the basic properties of real numbers, equations and inequalities, graphing of equations and inequalities, polynomials and factoring of polynomials, proportions and rational expressions, systems of equations, roots and radical expressions, and quadratic equations and their graphs. Upon successful completion of this course, students are strongly urged to fulfill their remaining mathematics requirement(s) without delay (strike while the iron of your knowledge is piping hot). Course does not apply toward college graduation credit requirements.

PreRequisites:

**MATH0015L**  
**BEGINNING ALGEBRA-LAB**  
**Credits (Min/Max): 0/0**

This is the lab component of Beginning Algebra, the lecture component of which is designated MATH0015 Beginning Algebra. Students follow the MyFoundationsLab customized Learning Path determined by their performance on the Accuplacer® Diagnostic Test in Elementary Algebra. The individualized Learning Path targets those elementary-algebra skills necessary for college-level course work that require improvement. Students earn either a P(ass) or an F(ailure) depending on their performance. This course does NOT count toward college-graduation credit requirements. In order to pass Beginning Algebra students must earn not only a grade of P in this lab but also a grade of B or higher in the lecture (MATH0015).

**MATH1010**  
**COLLEGE ALGEBRA**  
**Credits (Min/Max): 3/3**

A traditional study of pre-calculus mathematics with emphasis on functions and relations. Includes a review of linear and quadratic equations, rational expressions, exponents, radicals and logarithms. Polynomial, exponential, and logarithmic functions are presented together with the conic sections, systems of equations, determinants, the binomial theorem and mathematical induction.

PreRequisites:

**MATH1023**  
**COLLEGE TRIGONOMETRY**  
**Credits (Min/Max): 3/3**

A traditional course in trigonometry including circular measure, trigonometric ratios, the trigonometry of right and obtuse triangles with applications, trigonometric functions and their graphs, inverse trigonometric functions, identities, and trigonometric equations.

PreRequisites: MATH1010 - COLLEGE ALGEBRA



**MATH1029****PRE CALCULUS****Credits (Min/Max): 3/3**

This is a transition course from algebra and trigonometry to, and may serve, therefore, as a preparation for, calculus. The topics covered include functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometric functions and analytic trigonometry, polar coordinates and vectors, and the conic sections.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**MATH1030****CALCULUS FOR BUSINESS, ECONOMICS & MGMT SCIENCES****Credits (Min/Max): 3/3**

A one-semester course in the differential and integral calculus of functions of a single variable. Emphasis on concepts and the skills of differentiation and integration with applications from Administration, Economics and Managerial Sciences.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**MATH1032****ANALYTIC GEOMETRY & CALCULUS I****Credits (Min/Max): 4/4**

The first semester of a three-semester integrated course in the elements of analytic geometry and differential and integral calculus. Included are the concept and applications of the derivative of a function of a single variable, differentiation of polynomials and the trigonometric functions, the chain, product and quotient rules, implicit differentiation, and differentials. Concludes with anti-differentiation, integration, area under graphs of functions and applications.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**MATH1033****ANALYTIC GEOMETRY & CALCULUS II****Credits (Min/Max): 4/4**

A continuation of MATH1032 including applications of the definite integral, area, arc length, volumes and surface area, centroids, average value and theorem of the mean for definite integrals. Derivatives and integrals of transcendental functions are followed by techniques of integration, L'Hopital's Rule and indeterminate forms and improper integrals. Also included are conic sections and polar coordinates.

PreRequisites: MATH1032 - ANALYTIC GEOMETRY & CALCULUS I

**MATH1040****PROBABILITY & STATISTICS****Credits (Min/Max): 3/3**

The study of the fundamentals of probability theory with applications to natural and social sciences as well as to mathematics. Discrete and continuous distributions, sampling theory, linear correlation, regression, statistical inference, estimation and analysis of variance are included.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**MATH1040H****PROBABILITY & STATISTICS-HONORS****Credits (Min/Max): 3/3**

An intensive one semester course in probability and statistics for science and honors students. Various discrete and continuous probability distributions will be examined including the binomial, multinomial, Poisson, uniform, exponential, gamma, and normal distributions. Mathematical expectation, moment generating functions, linear combinations of random variable, sampling distributions, point estimations, confidence intervals, hypothesis testing, analysis of variance, regression, correlation and the method of least square will also be examined.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**MATH2000****MATHEMATICS FOR LIBERAL ARTS****Credits (Min/Max): 3/3**

As in-depth exploration of the applications of various types of mathematics, with an emphasis on problem solving skills. Writing skills are an integral part of this course. The connecting of mathematical ideas with other subject areas will be emphasized. These areas will include: art, biology, chemistry, coding, computers, demographics, fiction, genetics, logic, management, marketing, music, philosophy, physics, politics, psychology, and social planning. The discussion of original source documents will be an integral part of this course.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**MATH2006****ANALYTIC THINKING & PROBLEM SOLVING****Credits (Min/Max): 3/3**

This course develops the student's ability to critically analyze and solve problems, analogies, and work problems. A variety of problem solving techniques and tools are presented, such as chart and diagrams, flow charts, decision tables, and algorithms. Through the use of non-traditional exercises, a combination of techniques will lead to solutions. NOTE: This course may not be used to satisfy the mathematics requirements. Core Course.

**MATH2023**  
**GEOMETRY & MEASUREMENT**  
**Credits (Min/Max): 3/3**

An overview of the Euclidian and non-Euclidian geometries required for teaching mathematics, particularly middle school mathematics, focusing on geometrical shapes and their properties, spatial reasoning, geometrical shapes in nature and art, and application of measurements.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**MATH2030**  
**ANALYTIC GEOMETRY & CALC III**  
**Credits (Min/Max): 4/4**

A continuation of MATH1033 including a study of vectors, parametric equations, solid analytic geometry and functions of several variables. Includes partial differentiation, total differentials, multiple integrals and surface and line integrals, the theorems of Gauss and Stokes, and infinite series.

PreRequisites: MATH1033 - ANALYTIC GEOMETRY & CALCULUS II

**MATH2031**  
**ORDINARY DIFFERENTIAL EQUATIONS**  
**Credits (Min/Max): 3/3**

A study of first and second order differential equations, infinite series, Laplace transforms and power series together with existence of solution and uniqueness theorems.

PreRequisites: MATH2030 - ANALYTIC GEOMETRY & CALC III

**MATH2050**  
**DISCRETE MATHEMATICS I**  
**Credits (Min/Max): 3/3**

A basic course dealing with mathematics applicable to computer science. It provides an introduction to mathematical methods and covers such topics as: enumeration, set theory, mathematical logic, proof techniques, number systems, functions and relations, graphs and digraphs, trees, combinatorics, basic algebraic structures, recurrence relations, Boolean algebra, and analysis of algorithms.

PreRequisites: MATH1032 - ANALYTIC GEOMETRY & CALCULUS I

**MATH2051**  
**DISCRETE MATHEMATICS II**  
**Credits (Min/Max): 3/3**

A continuation of MATH1014. Topics to be covered will include some or all of the following: integers and integers Mod  $n$ ; counting techniques, combinatorics, and discrete probability; graphs, trees, and relations; Boolean algebras; and models of computation such as grammars, finite-state machines, and Turing machines.

PreRequisites: MATH2050 - DISCRETE MATHEMATICS I

**MATH2070**  
**FINITE MATHEMATICS**  
**Credits (Min/Max): 3/3**

A survey of non-calculus mathematics that provides the solid foundation needed by students in business, social sciences, and non-science courses. Topics covered include linear functions, matrix linear programming, probability and statistics, mathematics of finance, Markov chains and decision theory.

**MATH2075**  
**INTRO TO APPLIED ANALYSIS**  
**Credits (Min/Max): 3/3**

This course is intended for students majoring in the natural sciences who are interested in specific applications of Calculus to Chemistry, Biology, Physics and Neuroscience. Possible topics include: applications of root finding, Taylor Polynomials, Taylor Series, differential equations numerical integration, Fourier series, the implicit function theorem, neuronal models.

PreRequisites: MATH1033 - ANALYTIC GEOMETRY & CALCULUS II

**MATH3010**  
**ELEMENTARY NUMBER THEORY**  
**Credits (Min/Max): 3/3**

A study of the properties of integers, the fundamental theorem of arithmetic, congruences, linear diophantine equations, quadratic residues and continued fractions.

### **MATH3015**

#### **LINEAR ALGEBRA**

**Credits (Min/Max): 3/3**

A development of the theory of vector spaces from linear equations, matrices and determinants. Topics include linear independence, bases, dimensions, linear mappings, orthogonal reduction, diagonalization of matrices using eigenvectors and eigenvalues.

### **MATH3040**

#### **PROBABILITY & STATISTICS I**

**Credits (Min/Max): 3/3**

A calculus-based first course in probability and statistics for science and honors students. Various discrete and continuous probability distributions will be examined including the binomial, multinomial, Poisson, uniform, exponential, gamma and normal distributions. Mathematical expectation, moment generating functions, linear combinations of random variables, sampling distributions, point estimation, confidence intervals, hypothesis testing, analysis of variance, regression, correlation and the method of least squares will also be examined.

### **MATH3045**

#### **PROBABILITY & STATISTICS II**

**Credits (Min/Max): 3/3**

A detailed study of topics in statistics: comparison of classical and Bayesian methods in conditional probability and estimation of parametrics, non-linear regression, multiple, partial and rank correlation, indices, time series, analyses of variance for two-way classification with and without interaction, design of experiments, reliability and validity of measurements and non-parametric tests.

PreRequisites: MATH3040 - PROBABILITY & STATISTICS I

### **MATH4003**

#### **HISTORY OF MATHEMATICS**

**Credits (Min/Max): 3/3**

A survey course in the development of modern mathematics. Beginning with the rudimentary mathematical concepts developed in prehistoric times, mathematics grew sometimes slowly and sometimes rapidly with the insights of various cultures. In this course we trace this development through ancient Mesopotamia and Egypt, classical Greece, Arabic and Hindu cultures of the Dark and Middle Ages, the European Renaissance and on into the modern times. Special attention will be paid to major developments such as the emergence of mathematics as an organized, reasoned and independent discipline in Classical Greece; the emergence and development of major areas of mathematics such as of algebra, trigonometry, productive geometry, calculus, analytic geometry infinite series, non-Euclidean geometry; and how developments in mathematical thought have shaped the modern world.

PreRequisites: MATH2031 - ORDINARY DIFFERENTIAL EQUATIONS

### **MATH4015**

#### **MODERN ABSTRACT ALGEBRA**

**Credits (Min/Max): 3/3**

An introduction to algebraic concepts such as groups, rings, integral domains and fields. The elementary number systems occupy a central place. Mappings, especially homomorphisms, are introduced early and emphasized through out the course.

### **MATH4020**

#### **GEOMETRY**

**Credits (Min/Max): 3/3**

An overview of geometry in the light of modern trends with attention to axiomatic structure, including an introduction to hyperbolic and elliptic figures as geometric structures together with an overview of projective geometry.

### **MATH4035**

#### **REAL ANALYSIS**

**Credits (Min/Max): 3/3**

An introductory to classical (real) analysis. Includes a rigorous treatment of logic, set theory, functions, countable and uncountable sets, the real number system, metric spaces, sequences, series, differentiation and integration.

PreRequisites: MATH2031 - ORDINARY DIFFERENTIAL EQUATIONS

### **MATH4045**

#### **DATA REDUCTION & ERROR ANALYSIS FOR THE PHYSICAL SCIENCES**

**Credits (Min/Max): 3/3**

A first course in data reduction and error analysis with emphasis placed more upon hands-on experience than upon theory. Topics covered will include: sample statistics; the Binomial, Poisson, Gaussian and Lorentzian distributions; analysis of the propagation of errors; linear and nonlinear least squares; multiple regression and data manipulation techniques. Students will be expected to perform analyses using commercially available software and software of their own composition.

**MATH4051**  
**MATHEMATICS-INTERNSHIP I**  
**Credits (Min/Max): 3/3**

A practical experience in a field setting.

**MATH4056**  
**RESEARCH IN MATHEMATICS**  
**Credits (Min/Max): 2/4**

An individual investigation in the student's field of interest carried out under the supervision of a faculty member. The student is responsible for defining a problem, planning a course of investigation, and reporting higher results in a scientific paper.

**MATH4057**  
**MATHEMATICS-INDEPENDENT STUDY**  
**Credits (Min/Max): 1/4**

Independent study is an accelerated program for superior students in the division of natural and mathematical sciences. It is intended to allow a student to pursue studies in advanced topics. The student designs an independent study in conjunction with a divisional faculty member. To be eligible for independent study the student must comply with all appropriate college policies.

**MATH4060**  
**NUMERICAL MATHEMATICS & NUMERICAL COMPUTING I**  
**Credits (Min/Max): 3/3**

A survey of numerical techniques for numerically solving a variety of mathematical problems with an emphasis on application as opposed to theory. Topics to be covered include: sources of error in numerical computations, solving nonlinear equations, solving sets of simultaneous equations, interpolating polynomials, numerical integration and numerical differentiation.

PreRequisites: MATH2031 - ORDINARY DIFFERENTIAL EQUATIONS

**MATH4061**  
**NUMERICAL MATHEMATICS & NUMERICAL COMPUTING II**  
**Credits (Min/Max): 3/3**

Second semester of a survey course in numerical techniques for the numerical solution of a variety of mathematical problems with an emphasis on application as opposed to theory. Topics to be covered include: initial-value problems, partial differential equations, curve fitting and approximation of functions.

PreRequisites: MATH4060 - NUMERICAL MATHEMATICS & NUMERICAL COMPUTING I

**MATH4090**  
**JR/SR SEMINAR IN MATHEMATICS**  
**Credits (Min/Max): 1/1**

The seminar offers two aspects, one somewhat theoretical and the other applied. They are, respectively, an introduction to actuarial mathematics and a preparation for the Exam P Probability, which is first of four preliminary examination of Society of Actuaries.

PreRequisites: MATH2031 - ORDINARY DIFFERENTIAL EQUATIONS

**MATH4094**  
**SPECIAL PROBLEMS IN MATHEMATICS**  
**Credits (Min/Max): 3/3**

An individual investigation in the student's field of interest carried out under the supervision of a faculty member. The student is responsible for defining a problem, planning a course of investigation, and reporting higher results in a scientific paper.

**MLAR1001**  
**ELEMENTARY ARABIC I**  
**Credits (Min/Max): 4/4**

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in the beginning Arabic. The goal of the course is the acquisition of a useful, communicative command of language at the Novice-Low to Novice-Mid level on the national scale, as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or functions (conversing with an exchange student, completing forms, etc.) and the exploration of cultural subtleties conveyed by language, thought and customs.

**MLAR1002**  
**ELEMENTARY ARABIC II**  
**Credits (Min/Max): 4/4**

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in the beginning Arabic. The goal of the course is the acquisition of a useful, communicative command of language at the Novice-Low to Novice-Mid level on the national scale, as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or functions (conversing with an exchange student, completing forms, etc.) and the exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLAR1001 - ELEMENTARY ARABIC I

### **MLAR2001 INTERMEDIATE ARABIC I**

**Credits (Min/Max): 3/3**

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in beginning Arabic. The goal of this course is the acquisition of a useful, communicative command of the language at the Novice-Mid level on the national scale, as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or functions (conversing with an exchange student, completing forms, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLAR1002 - ELEMENTARY ARABIC II

### **MLAR2002 INTERMEDIATE ARABIC II**

**Credits (Min/Max): 3/3**

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in beginning Arabic. The goal of this course is the acquisition of a useful, communicative command of the language at the Novice-Mid level on the national scale, as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or functions (conversing with an exchange student, completing forms, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLAR2001 - INTERMEDIATE ARABIC I

### **MLAR3001 ARABIC LANGUAGE & CULTURE I**

**Credits (Min/Max): 3/3**

As a continuation of Intermediate Arabic II, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in Arabic. The goal of the course is the acquisition of a communicative and accurate command of the language at the Intermediate Low to Intermediate Mid level on the national scale of language proficiency as established by the American Council on the Teaching of Foreign Languages (ACTFL). The course will enrich the students' vocabulary, grammar, writing and reading skills, as well as enable them to understand and converse accurately in Arabic. Basic texts help students connect the written and aural/oral aspects of Arabic through intensive reading that is focused on grammar and Pronunciation. Students develop skills in writing at the paragraph level, translation, correct expression, and dictionary use.

PreRequisites: MLAR2002 - INTERMEDIATE ARABIC II

### **MLAR3002 ADVANCED ARABIC II**

**Credits (Min/Max): 3/3**

As a continuation of Arabic Language & Culture I, this course is a part of a proficiency-based program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in Arabic. The goal of the course is the acquisition of a communicative and accurate command of the language at the Intermediate Low to Intermediate Mid level on the national scale of language proficiency as established by the American Council on the Teaching of Foreign Languages (ACTFL). The course will enrich the students' vocabulary, grammar, writing and reading skills, as well as enable them to understand and converse accurately in Arabic. Basic texts help students connect the written and aural/oral aspects of Arabic, through intensive reading that is focused on grammar and pronunciation. Students develop skills in writing at the paragraph level, translation, correct expression, and dictionary use.

### **MLED2000 ENGLISH LANGUAGE LEARNERS IN THE MULTICULTURAL CLASSROOM**

**Credits (Min/Max): 3/3**

This course introduces the most important principles and practices for teachers of children with home languages other than English. Students examine the implications of cultural and linguistic variation for English Language learners. We focus on how educators work in the classroom, the school, and the community to support these learners' language development and academic learning.

### **MLED2005 STRUCTURES OF ENGLISH**

**Credits (Min/Max): 3/3**

This course introduces the major structural elements of English for students intending to teach English as a Second Language. Students engage in systematic description and discussion of the phonetic, morphological, syntactic, semantic, and pragmatic systems of English. We investigate issues of dialect variation, prescriptive rules, and literacy development. Practical applications include analysis of ELLs' writing and speech samples.

#### **MLED2010**

##### **LANGUAGE LEARNING & INSTRUCTION**

**Credits (Min/Max): 3/3**

This course introduces the nature of language competence and the processes of first and second language development. A survey of the major theories of language learning leads to the evaluation of language and literacy practices in classroom instruction for second language learners. Important factors in language learning are identified and discussed, including linguistic knowledge, social interaction, the learning context, motivation, and age.

#### **MLED3000**

##### **METHODS OF TEACHING & EVALUATING ENGLISH AS A SECOND LANGUAGE**

**Credits (Min/Max): 3/3**

This course provides a comprehensive introduction to classroom instruction and assessment for ESL students. Students practice applying principles of language learning to the observation, analysis, selection, creation, and organization of classroom activities. A variety of techniques and strategies are explored, with emphasis on current proficiency-based approaches for learners who need English for social, academic, and socio-cultural purposes.

#### **MLED3002**

##### **METHODS OF TEACHING & EVALUATING ENGLISH LANGUAGE LEARNERS**

**Credits (Min/Max): 3/3**

This course provides a comprehensive introduction to classroom instruction and assessment for ESL students. Students practice applying principles of language learning to the observation, analysis, selection, creation, and organization of classroom activities. A variety of techniques and strategies are explored, with emphasis on current proficiency-based approaches for learners who need English for social, academic, and socio-cultural purposes.

#### **MLED3005**

##### **CURRICULUM & MATERIALS DEVELOPMENT FOR ENGLISH LANGUAGE LEARNERS**

**Credits (Min/Max): 3/3**

This course focuses on the application of principles and practices for teaching English Language Learners in the context of the curriculum, the program and the school community. Students select and design resources for an instructional unit that integrates English language skills with academic content learning. We investigate strategies and tools for placing and monitoring students, working with ESL students with special needs, and collaborating with school staff and parents, in order to further the language, cognitive, and social development of ELLs.

#### **MLED3010**

##### **METHODS OF TEACHING AND EVALUATING FOREIGN LANGUAGE ED**

**Credits (Min/Max): 3/3**

This course will focus on the teaching of foreign languages. A variety of teaching models and strategies for organizing the classroom will be explored. Emphasis will be placed on formulating objectives, selecting and organizing content, and developing various strategies to implement in a proficiency-based program. Techniques for evaluation of teaching effectiveness as well as evaluation of student learning will be discussed.

#### **MLED3015**

##### **FIELD PLACEMENT/PRACTICUM TESOL**

**Credits (Min/Max): 1/1**

This course uses a reflective model of teacher education to build practical knowledge about classroom instruction, evaluation, and school support services. Students participate in observation, interviews, and hands-on activities related to planning, carrying out lessons, and evaluating students. A developmental portfolio helps students connect theory and practice through reflection.

#### **MLED3080**

##### **CURRICULUM & MATERIALS DEVELOPMENT FOR FOREIGN LANGUAGES**

**Credits (Min/Max): 3/3**

This course is designed to provide the needed skills for foreign language instruction. Focus will be on developing, implementing, and evaluating instructional strategies and materials for both the elementary and secondary levels. In addition prospective foreign language teachers will learn to plan and assess appropriate learning activities for their students, and to reflect on their own learning strategies and behavior.

#### **MLFR1001**

##### **ELEMENTARY FRENCH I**

**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in beginning French. The goal of the course is the acquisitions of a useful, communicative command of the language at the Novice-Mid to Novice-High level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or functions (conversing with an exchange student, completing forms, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

**MLFR1002**  
**ELEMENTARY FRENCH II**  
**Credits (Min/Max): 4/4**

As a continuation of Elementary French I, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading, and writing skills in beginning French. The goal of the course is the acquisitions of a useful, communicative command of the language at a Novice Mid to Intermediate Low level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real-life language tasks or functions (e.e., conversing with an exchange student, making grocery lists, completing forms, etc.), and exploration of cultural subtleties conveyed by language, thought, and customs.

PreRequisites: MLFR1001 - ELEMENTARY FRENCH I

**MLFR2001**  
**INTERMEDIATE FRENCH I**  
**Credits (Min/Max): 3/3**

These courses are designed to build on the student's previous skills, thereby improving oral proficiency. Vocabulary acquisition and the reading of authentic aural and written materials broaden the student's knowledge and linguistic abilities. Classroom activities focus on development of skill in self-expression. The student has many opportunities to expand cultural knowledge through films, videotapes, and informal rendezvous. Course is not open to students with an advanced or superior oral proficiency level in French.

PreRequisites: MLFR1002 - ELEMENTARY FRENCH II

**MLFR2002**  
**INTERMEDIATE FRENCH II**  
**Credits (Min/Max): 3/3**

This course is designed to teach the beginning French student the four basic skills of listening, speaking, reading, and writing. The focus of this course is the development of aural/oral proficiency by means of vocabulary development, listening and speaking practice, and guided conversation. Class work emphasizes the acquisition of strategies for understanding, authentic listening and reading materials. Through such activities as classroom discussions, videotapes, and films, the student becomes acquainted with various facets of francophone culture. Course is not open to students with an advanced or superior oral proficiency level in French.

PreRequisites: MLFR2001 - INTERMEDIATE FRENCH I

**MLFR3001**  
**ADVANCED FRENCH LANGUAGE & CULTURE I**  
**Credits (Min/Max): 3/3**

This course is designed to advance the student's language proficiency through the development of communicative strategies such as: how to express one's feelings; how to get and give advice; how to make plans; how to react to an opinion and how to maintain discussions. The student gains experience in using socially acceptable formats for writing both personal and business correspondence. Through carefully chosen authentic texts, cross-cultural phenomena such as contemporary social issues and business practices are explored.

PreRequisites: MLFR2002 - INTERMEDIATE FRENCH II

**MLFR3002**  
**ADVANCED FRENCH LANGUAGE & CULTURE II**  
**Credits (Min/Max): 3/3**

This course is designed to advance the student's language proficiency through the development of communicative strategies such as: how to express one's feelings; how to get and give advice; how to make plans; how to react to an opinion and how to maintain discussions. The student gains experience in using socially acceptable formats for writing both personal and business correspondence. Through carefully chosen authentic texts, cross-cultural phenomena such as contemporary social issues and business practices are explored.

PreRequisites: MLFR3001 - ADVANCED FRENCH LANGUAGE & CULTURE I

**MLFR3005**  
**FRENCH CIVILIZATION**  
**Credits (Min/Max): 3/3**

A study of the French and Francophone culture, civilization, literary genres, and authors from the 16th-21st century.

PreRequisites: MLFR3002 - ADVANCED FRENCH LANGUAGE & CULTURE II

**MLFR4057**  
**FRENCH STUDIES-INDEPENDENT STUDY**  
**Credits (Min/Max): 1/6**

Independent study course for students who have demonstrated an intense commitment to investigate a particular area of French studies. The student will design an independent study in conjunction with the appropriate language faculty member.

**MLIT1001**  
**ELEMENTARY ITALIAN I**  
**Credits (Min/Max): 4/4**

This course is designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in the beginning Italian. The goal of the course is the acquisition of a useful, communicative command of language at the Novice-Low to Novice-Mid level on the national scale, as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or functions (conversing with an exchange student, completing forms, etc.) and the exploration of cultural subtleties conveyed by language, thought and customs.

**MLIT1002**  
**ELEMENTARY ITALIAN II**  
**Credits (Min/Max): 4/4**

As a continuation of Elementary Italian I, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading, and writing skills in beginning Italian. The goal of the course is the acquisition of a useful, communicative command of the language at the Novice Mid to Intermediate Low level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real-life language tasks or functions (i.e., conversing with an exchange student, making grocery lists, completing forms, etc.), and exploration of cultural subtleties conveyed by language, thought, and customs.

PreRequisites: MLIT1001 - ELEMENTARY ITALIAN I

**MLIT2001**  
**INTERMEDIATE ITALIAN I**  
**Credits (Min/Max): 3/3**

As a continuation of Elementary Italian II, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in intermediate Italian. The goal of the course is the acquisition of a useful, communicative command of the language at the Novice High to Intermediate Low level on the national scale as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target-language tasks of functions (e.g., ordering a meal, making travel arrangements, visiting a doctor's office, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLIT1002 - ELEMENTARY ITALIAN II

**MLSP1001**  
**ELEMENTARY SPANISH I**  
**Credits (Min/Max): 4/4**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in beginning Spanish. The goal of the course is the acquisitions of a useful, communicative command of the language at the Novice-Mid to Novice-High level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target language input (oral and visual), active oral and written practice of real-life language tasks or functions (conversing with an exchange student, completing forms, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

**MLSP1002**  
**ELEMENTARY SPANISH II**  
**Credits (Min/Max): 4/4**

As a continuation of Elementary Spanish I, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading, and writing skills in beginning Spanish. The goal of the course is the acquisitions of a useful, communicative command of the language at a Novice Mid to Intermediate Low level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real-life language tasks or functions (e.e., conversing with an exchange student, making grocery lists, completing forms, etc.), and exploration of cultural subtleties conveyed by language, thought, and customs.

PreRequisites: MLSP1001 - ELEMENTARY SPANISH I

**MLSP2001**  
**INTERMEDIATE SPANISH I**  
**Credits (Min/Max): 3/3**



As a continuation of Elementary Spanish II, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in intermediate Spanish. The goal of the course is the acquisition of a useful, communicative command of the language at the Novice High to Intermediate Low level on the national scale as established by the American Council on the Teaching of Foreign Languages and the Educational Testing Service. This goal will be realized through maximum exposure to authentic target-language tasks of functions (e.g., ordering a meal, making travel arrangements, visiting a doctor's office, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLSP1002 - ELEMENTARY SPANISH II

### **MLSP2002 INTERMEDIATE SPANISH II**

**Credits (Min/Max): 3/3**

As a continuation of Intermediate Spanish I, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading, and writing skills in intermediate Spanish. The goal of the course is the acquisition of a useful, communicative command of the language at a low level on the national scale, as established by the American Council on the Teaching of Foreign Languages and the Education Testing Service. This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real-life language tasks or functions (e.g., conversing with an exchange student, going to the bank, using the telephone, going to the doctor's office, etc.), and exploration of cultural subtleties conveyed by language, thought, and customs.

PreRequisites: MLSP2001 - INTERMEDIATE SPANISH I

### **MLSP3001 ADVANCED SPANISH LANGUAGE & CULTURE I**

**Credits (Min/Max): 3/3**

As a continuation of Intermediate Spanish II, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in Spanish. The goal of the course is the acquisition of a useful, communicative command of the language at the Intermediate-Low to Intermediate-Mid level on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real life language tasks or functions (e.g. ordering a meal, making travel arrangements, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLSP2002 - INTERMEDIATE SPANISH II

### **MLSP3002 ADVANCED SPANISH LANGUAGE & CULTURE II**

**Credits (Min/Max): 3/3**

As a continuation of Advanced Spanish Language & Culture I, this course is part of a proficiency-based language program designed to provide maximum opportunities for students to develop functional listening, speaking, reading and writing skills in Spanish. The goal of the course is the acquisition of a useful communicative command of the language at the Intermediate-Mid to Intermediate High levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized through maximum exposure to authentic target-language input (oral and visual), active oral and written practice of real life language tasks or functions (e.g. giving suggestions, making plans for the future, etc.) and exploration of cultural subtleties conveyed by language, thought and customs.

PreRequisites: MLSP3001 - ADVANCED SPANISH LANGUAGE & CULTURE I

### **MLSP3005 ADVANCED SPANISH GRAMMAR & COMPOSITION**

**Credits (Min/Max): 3/3**

This course is structured to enhance the knowledge of grammar and the reading and writing skills of students who have already achieved an intermediate level or oral, written and reading proficiency in Spanish as measured on the ACTFL/ETS scale. Students will learn correct grammatical construction through literary readings and discussion, intensive vocabulary study, intensive study of grammar points, and composition practice.

PreRequisites: MLSP3002 - ADVANCED SPANISH LANGUAGE & CULTURE II

### **MLSP3010 ADVANCED SPANISH CONVERSATION**

**Credits (Min/Max): 3/3**

This course is part of a proficiency-based language program designed to provide maximum opportunities for students to acquire speaking and listening comprehension skills in Intermediate Spanish to the Advanced levels on the national scale as established by the American Council on the Teaching of Foreign Languages (ACTFL) and the Educational Testing Service (ETS). This goal will be realized by the following means: Practice on stress, intonation and difficult pronunciation as needed; Presentation, discussions, and other activities in small groups and as a class; Speeches and debates prepared in advance; Listening comprehension activities and note-taking practice. This course will be conducted in Spanish to assist students in maintaining their proficiency goals.

PreRequisites: MLSP3002 - ADVANCED SPANISH LANGUAGE & CULTURE II

**MLSP3015**  
**APPLIED HISPANIC LINGUISTICS (SPAE3015)**  
**Credits (Min/Max): 3/3**

This course introduces the student to general linguistic theory and its application to the problems which teachers face in the foreign language classroom. Students will discover practical resolutions to problems encountered in the presentation of linguistic material. A study of the sound system of Spanish and training in native-like Spanish pronunciation will also be incorporated into the course. Cross-listed with SPAE3015

PreRequisites: MLSP3005 - ADVANCED SPANISH GRAMMAR & COMPOSITION

**MLSP3020**  
**SPANISH CULTURE**  
**Credits (Min/Max): 3/3**

This course will introduce the student to the study of peninsular Spanish culture. Students will study the early cultures which contributed to Spanish culture as it exists today. Also included is the study of historical influences, geography, economics, membership in the European Union (EU), religion(s), political system, art, literature, dance, music, architecture, traditions, customs, languages/dialects and other cultural symbols and trends in the various regions of the country. This course will be conducted in Spanish to assist students in achieving and maintaining their proficiency goals.

PreRequisites: MLSP3002 - ADVANCED SPANISH LANGUAGE & CULTURE II

**MLSP3025**  
**LATIN AMERICAN CULTURE**  
**Credits (Min/Max): 3/3**

This course will introduce the student to the study of culture including the relationships between the perspectives, products, and practices of the cultures of Latin American (as stated in the National Standards for Foreign Language Teaching). Students will study the early cultures which contributed to Latin American culture as it exists today. Also included is the study of the history, geography, economics, religions(s), political systems, art, literature, dance, music, architecture, traditions, customs and other cultural symbols of Latin America, Latin society in the U.S. and in Equatorial Guinea. This course will be conducted in Spanish to assist students in maintaining their proficiency goals.

PreRequisites: MLSP3002 - ADVANCED SPANISH LANGUAGE & CULTURE II

**MLSP3030**  
**SURVEY OF SPANISH LITERATURE**  
**Credits (Min/Max): 3/3**

This course covers the major literary periods, authors, trends and genres in Spanish Peninsular literature from the pre-medieval period through the 20th century from an historical perspective. Literary text will be read and discussed; they will include representative selections of each major literary period.

PreRequisites: MLSP3005 - ADVANCED SPANISH GRAMMAR & COMPOSITION

**MLSP3040**  
**SURVEY OF LATIN AMERICAN LIT**  
**Credits (Min/Max): 3/3**

A study of the major literary periods, trends and genres in Spanish American literature from pre-Columbian times through the 20th century from an historical perspective. Literary texts to be read and discussed include representative selections of key historic texts and literary figures from each major literary period.

**MLSP4057**  
**SPANISH LANGUAGE-INDEPENDENT STUDY**  
**Credits (Min/Max): 1/3**

Independent study course for students who have demonstrated an intense commitment to investigate a particular area of Spanish studies. The student will design an independent study in conjunction with the appropriate language faculty member.

**MRKT2007**  
**ADVERTISING & P.R.(ADMG2007)**  
**Credits (Min/Max): 3/3**

A comprehensive study of advertising, detailing its relationship to marketing practice. Topics such as advertising preparation, media evaluation, market research, pricing and retailing problems are included. The role of public relations in an organizational communication program is also explained. *Cross-listed with ADMG2007*

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

**MRKT2021**  
**MARKETING MANAGEMENT(ADMG2021)**  
**Credits (Min/Max): 3/3**

A basic study of marketing systems in the American economy. This course includes, identifying the activities involved in the flow of goods among manufacturers, brokers, wholesalers, retailers and consumers. The nature of demand, buyer behavior, costs and pricing, sales strategies, promotions and techniques are presented. *Cross-listed with ADMG2021*

**MRKT3012**  
**BUYER BEHAVIOR**  
**Credits (Min/Max): 3/3**

This course focuses on the role of buyers in the marketing process. Buyer behavior in the consumer marketplace as well as the organizational buying process is examined. The study of buying behaviors enhances understanding of what marketing strategies are likely to be effective, how humans operate in the marketplace, and what kind of affective, cognitive, and social mechanisms enter into the purchasing decision. A sampling of specific topics addressed includes the role of attitudes, learning and memory, and lifestyles and culture in the buying decision.

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

**MRKT3016**  
**PERSONAL SELLING**  
**Credits (Min/Max): 3/3**

This course introduces the student to the basic principles and foundations of Personal Selling on three levels: industrial, commercial and retail. Emphasis is on the detailed analysis of the sales process as viewed by the salesperson. Other sales foundation topics covered include the organizational buying process, sales communications, the theory of adaptive sales, and ethical/legal issues in selling. Using a variety of instructional methods such as role-playing and video cases, students are given an opportunity to practice their newly acquired sales skills.

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

**MRKT3031**  
**SPORTS & ENTERTAINMENT MARKETING**  
**Credits (Min/Max): 3/3**

Sports and Entertainment Marketing may be thought of as the specific application of marketing principles and processes to sports and entertainment. This course examines the complex and diverse nature of sports and entertainment marketing. A framework will be presented to help explain and organize the strategic sports and entertainment marketing process as well as the current structure of the sports and entertainment industry. Specific topics addressed include: understanding spectators, participants, and sponsors, sports marketing branding, women in sports, international sports marketing, and the emerging industry entertainment trends in music and motion pictures, sponsorship programs, ticket pricing and pricing models, stadium economics, and franchising as a distribution tool.

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

**MRKT3033**  
**MARKETING RESEARCH**  
**Credits (Min/Max): 3/3**

Explores the function which links the consumer, customer, and public to the marketer through information -- information used to identify and define marketing opportunities and problems; generate, refine, and evaluate marketing actions; and, monitor marketing performance. This course deals with the planning for, collection, and analysis of data relevant to marketing decision-making and the communication of the results of this analysis to management.

PreRequisites: MRKT3012 - BUYER BEHAVIOR

**MRKT3049**  
**INT'L MKT & EXPORT MGMT (INMT3049)**  
**Credits (Min/Max): 3/3**

An upper level course focusing on key management functions in international marketing: entry strategies, product and pricing politics, financing, promotion and distribution. The course will also concentrate on export management that is the major international activity of most small and medium-sized companies. *Cross-listed with INMT3049*

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

**MRKT3050**  
**INTERNET MARKETING**  
**Credits (Min/Max): 3/3**

Marketers have been using electronic tools for many years, but the Internet and other new electronic technologies have created a flood of interesting and innovative ways to provide customer value. Internet Marketing is traditional marketing using electronic methods. It affects traditional marketing in two ways. First, it increases efficiency in established marketing functions. Secondly, the technology of E-marketing transforms many marketing strategies. The transformation results in new business models that add customer value and may increase company profitability. These new opportunities create many questions that are addressed in this course. How can firms leverage new technologies to maximum benefit? How much commitment should marketers make to Internet marketing programs?

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

**MRKT4001**  
**MARKETING FOR NONPROFITS**  
**Credits (Min/Max): 3/3**

This course positions marketing as the most critical discipline needed for the success of non-profit organizations. Emphasis is placed on the influencing of behavior over a wide range of target markets including clients, donors, policy accomplished by organizing much of the discussion of strategic and tactical marketing options available for non-profit's own paid staff. This is accomplished by organizing much of the discussion of strategic and tactical marketing options available for non-profits around two central behavioral science models: Stages of Change and BCOS Drivers (Benefits, Costs, Others, Self-Efficacy). In addition, this course removes the misconception of non-profit enterprise flourishing everywhere in the world, including Asian and formerly communist countries. The latest research on institutional structure, volunteering, and fundraising is integrated through lectures, vignettes, and case examples

**MRKT4014**  
**MARKETING STRATEGY**  
**Credits (Min/Max): 3/3**

A capstone course in marketing that emphasizes planning at the management level. Examines key concepts and issues that impact planning decisions, such as analysis of the marketing environment; formulation of marketing strategies; and development, implementation, and control of the marketing program. Using case studies, students are expected to develop comprehensive marketing plans and recommended solutions to specific situations encountered by marketing professionals operating in a wide variety of organizations.

PreRequisites: MRKT3012 - BUYER BEHAVIOR

**MRKT4016**  
**BRAND MANAGEMENT**  
**Credits (Min/Max): 3/3**

This course addresses the concept of branding which is of major importance to any company using a branding strategy. The role of the brand manager is examined in this combination theory and skills course. Various marketing techniques are studied for the overall responsibility of a brand in order to increase brand equity.

**MRKT4018**  
**SERVICES MARKETING**  
**Credits (Min/Max): 3/3**

The service sector comprises over three-quarters of the US economy, and is continually increasing its dominance. Some estimates suggest that 90% of all new jobs are service positions. Traditionally, marketers have focused on the 4 P's, making marketing mix decisions for products that are finished when they exit a production line. However, service marketers must deal with a broader range of issues, addressed in this course, including design of the service production process, recruitment and training of service providers, and relationship marketing for customer retention.

**MRKT4019**  
**SPORT ADMINISTRATION & MGMT (ADMG4019)**  
**Credits (Min/Max): 3/3**

This course will provide a comprehensive, current and concise introduction to sports management and administration principles and practices. Functional overviews of industry skills are presented and exposure to organizational theory, law and sports governance, facilities and venues, sports marketing, ethical applications, broadcasting, sales, event management, agency, advertising, sponsorship, international sport, collegiate and amateur sport will be addressed in detail.

**MRKT4031**  
**CONTEMPORARY CONCEPTS IN MARKETING**  
**Credits (Min/Max): 3/3**

As the signature course in the Marketing Program, this is a seminar on issues currently drawing attention in the marketing literature and the business community that affect marketing management. Ethical considerations are explored that affect marketing policy-making. Through additional case analysis some of the worst marketing blunders and mistakes in history are examined and evaluated.

PreRequisites: ADMG2021 - MARKETING MANAGEMENT(MRKT2021)

**MRKT4035**  
**RETAIL MARKETING & MANAGEMENT**  
**Credits (Min/Max): 3/3**

Retail marketing examines the set of business activities that adds value to the products and services sold to consumers for their personal or family use. Topics include: store-based retailing, electronic and non-store retailing forms, merchandising, retail pricing, store layout and management, site selection, and retail market strategies.

**MRKT4046**  
**SALES MANAGEMENT**  
**Credits (Min/Max): 3/3**

The role of sales managers is examined in this combination theory and skills course. Various specialized managerial functions are studied such as sales department budgeting, sales force organization, territory design, sales forecasting, sales compensation, performance evaluation, sales training, sales personnel recruitment, and sales force motivation.

PreRequisites: MRKT3016 - PERSONAL SELLING

**MRKT4051**  
**MARKETING-INTERNSHIP I**  
**Credits (Min/Max): 1/6**

A field experience in a customer service, sales, advertising, retail, or marketing support position, supervised by a field practitioner as well as college faculty. The internship is designed to increase understanding of the various functional areas that comprise the field of marketing.

**NADM5000**  
**HEALTH CARE FINANCE**  
**Credits (Min/Max): 3/3**

This course is designed to provide the student with an overview of the health care environment and the financing of the health care system. An emphasis will be placed on financial techniques, such as cost estimation and forecasting, break-even analysis, variance analysis, and capital budgeting. Overview of hospital-based care using inpatient tools to predict cost and measure performance as well as managing long-term care resources will also be discussed. Content will enable the student to develop the knowledge and skills necessary for effective participation in financial management related to strategic planning, program budget planning and control as it relates to traditional and non-traditional health care systems.

**NADM5017**  
**NURSING ADMINISTRATION I**  
**Credits (Min/Max): 3/3**

This course is designed to provide the student with knowledge of organizational and management theories and processes in relation to the planning continuum, practice and institutional environments, human and financial resource management and accreditation standards as they relate to traditional and nontraditional health care systems.

**NADM5020**  
**NURSING ADMINISTRATION II**  
**Credits (Min/Max): 3/3**

This course is designed to provide the student with the opportunity to apply management principles and processes required of nurse administrators. Current issues and trends in clinical specialty areas will be identified, discussed and analyzed in relation to their impact on the management of a health care setting.

PreRequisites: NADM5000 - HEALTH CARE FINANCE

**NADM5025**  
**NURSING ADMINISTRATION II: SEMINAR & PRACTICUM**  
**Credits (Min/Max): 3/3**

This practicum experience is designed to provide the student with the opportunity to integrate theory in a context of the nurse administrator's role. Emphasis is placed on the roles and functions performed by the nurse in an administrative role. During the 135 hour practicum, the student will be assigned to a nursing administrator who will assume the role of preceptor. Opportunities are provided to participate in a nursing administrative role. Students will interact with a variety of health care managers and professionals as well as participate in management, leadership, and teaching roles of the nurse administrator.

PreRequisites: NADM5000 - HEALTH CARE FINANCE

**NADM6000**  
**NURSING ADMINISTRATION III**  
**Credits (Min/Max): 3/3**

This course is designed to provide the student with knowledge of the administrative issues that impact the delivery of nursing care within the context of the traditional and non-traditional health care systems. Topics such as third party payment, health policy, change management, quality improvement, resource competition and allocation in culturally diverse environments are included.

PreRequisites: NADM5020 - NURSING ADMINISTRATION II

**NADM6025**  
**NURSING ADMINISTRATION III: SEMINAR & PRACTICUM**  
**Credits (Min/Max): 3/3**

This practicum experience is designed to provide the student with the opportunity to integrate theory in a reality context of the administrator's role. This course requires 135 hours of clinical practicum, where the student will be assigned to a nursing administrator who will assume the role of preceptor. Opportunities are provided to participate in the executive role in different administrative settings. The student will have the opportunity to interact with a variety of health care managers and professionals. This is a continuation of the practicum experience initiated in Nursing Administration II Seminar and Practicum.

PreRequisites: NADM5020 - NURSING ADMINISTRATION II

**NEDG5000**  
**ASSESSMENT, MEASUREMENT & EVALUATION OF LEARNERS**  
**Credits (Min/Max): 3/3**

This course is designed to introduce the student to processes of assessment, measurement and evaluation for the classroom and clinical teacher. Test planning, construction and use of a variety of types of test items, item analysis for test improvement, methods of summarizing test scores, derived scores for interpretation of performance, development and use of norms in evaluation will be explored. In addition, the design and use of clinical assessment tools will be presented. The importance of timely, constructive formative evaluation of learners is emphasized as is the importance of constructive self and peer evaluation.

#### **NEDG5002**

##### **TEACHING & LEARNING:STRATEGIES FOR THE CLASSROOM & CLINICAL NURSING EDUCATION**

**Credits (Min/Max): 3/3**

The course is designed to prepare the student to facilitate learning in classroom and clinical setting. Through analysis of educational theory, principles and evidenced-based practices, the learner will apply a variety of teaching strategies appropriate for content, setting, learner needs, learning style and learning outcomes. The use of information technologies to support the teaching-learning process is also explored.

PreRequisites: NEDG5004 - CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM

#### **NEDG5004**

##### **CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM**

**Credits (Min/Max): 3/3**

The course is designed to prepare the student to facilitate learning in classroom and clinical setting. Through analysis of educational theory, principles and evidenced-based practices, the learner will apply a variety of teaching strategies appropriate for content, setting, learner needs, learning style and learning outcomes. The use of information technologies to support the teaching-learning process is also explored.

#### **NEDG5006**

##### **CURRICULUM DESIGN II:EVALUATION & REVISION OF CURRICULUM**

**Credits (Min/Max): 3/3**

The course is designed to prepare the student to evaluate and revise curriculum based on institutional mission, philosophy, outcomes, learner needs, societal and health care trends and feedback from learners, agency personnel and accrediting agencies. Change theories and strategies to facilitate revision will be discussed.

PreRequisites: NEDG5004 - CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM

#### **NEDG5008**

##### **NURSING EDUCATION TEACHING PRACTICUM**

**Credits (Min/Max): 4/4**

This course is designed to provide the student with the opportunity to integrate nursing education theory to the educational environment. The student will be mentored by a nurse educator with knowledge and expertise in the educational role. Focus of this practicum will be on implementation of the teaching role.

PreRequisites: NEDG5004 - CURRICULUM DESIGN I:DEVELOPMENT OF CURRICULUM

#### **NSCI1001**

##### **THE NATURAL SCIENCES(SLSC1010)**

**Credits (Min/Max): 3/3**

An introduction to the basic concepts of biology, chemistry and physics, which stresses practical applications. Topics include survey of the fundamental concepts of atoms and molecules as the basic building blocks of matter, an overview of the life sciences with an emphasis on human biology and a discussion of the principles underlying common physical phenomena. Open to non-science majors.

#### **NSCI1005**

##### **DRUGS & THE HUMAN BODY**

**Credits (Min/Max): 3/3**

This course deals with the properties and effects of drugs, and in a more general sense, with the interactions of chemical compounds in living systems. It is a discipline of biology and is closely related to other disciplines, particularly physiology and biochemistry.

#### **NSCI1010**

##### **SCIENCE OF NUTRITION I**

**Credits (Min/Max): 3/3**

This course covers the basic elements of nutrition and its relationship to health. It teaches students essentials of adequate diet and the nutritional needs of various members of the family.

#### **NSCI1025**

##### **NORMAL & CLINICAL NUTRITION**

**Credits (Min/Max): 3/3**

This course covers the fundamental principles of nutrition and their relationship to health. The role of diet in the prevention and treatment of representative pathophysiological conditions will be examined. This course is designed for students majoring in Nursing or interested in careers in the Health Sciences.

**NSCI2005****KINESIOLOGY****Credits (Min/Max): 3/3**

The student will study the skeletal and muscular systems of the body in depth, as well as analyze their interrelationship to one another. The interrelationship of nerves to muscle and bone movement will also be investigated. Analysis of movement is an important component. The interrelationships of one part of the body to another will be investigated. Applications will be made to athletic ability and dance technique.

PreRequisites: BIOL1002 - INTRO TO THE HUMAN BODY:SYSTEMS THAT MOVE YOU

**NSCS2011****INTELLIGENCE ANALYSIS & PRESENTATION TECHNIQUES (CRIM2011)****Credits (Min/Max): 3/3**

This course examines the process used by analysts to develop strategic intelligence. Students will participate throughout the course as a member of a group tasked to complete an estimative project. Students will learn to apply strategic theory to critical national security problems. Cross-listed with CRIM2011

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**NSCS3010****BUSINESS INTELLIGENCE****Credits (Min/Max): 3/3**

This course explores the methods used to obtain and analyze data to create information that businesses can utilize in making decisions. An emphasis is placed on using public source information to meet the objectives of practical exercise scenarios.

PreRequisites: ENGL1012 - COLLEGE WRITING II

**NSCS3011****RESEARCH METHODS FOR ANALYSTS****Credits (Min/Max): 3/3**

This course examines the research methods and presentation techniques utilized by intelligence analysts. The student will be immersed in the world of Open Source Intelligence and will be taught to use relevant analytical tools in the form of open source search techniques and Intellipedia software. Students will function as members of an intelligence cell where they will use analytical tools to create both team and individual intelligence reports focused on selected criminal and terrorist organizations. Each student in this course will, as a final exercise, be responsible for producing an intelligence product and presenting a PowerPoint-based briefing to a panel of experts drawn from the Intelligence Community.

PreRequisites: NSCS3010 - BUSINESS INTELLIGENCE

**NSCS4005****NATIONAL SECURITY & INTELLIGENCE -SENIOR SEMINAR****Credits (Min/Max): 3/3**

This course is the capstone course required of all national security studies majors. Senior students will engage in an in-depth study of both the historical and current national security policies of the United States and selected foreign countries. Students are expected to possess excellent research and writing skills to be successful in this course. They are required to write and orally present several short white papers dealing with critical issues in the areas of national security and intelligence. The students knowledge base is evaluated during this course through the use of a comprehensive examination that encompasses the six national security major required courses. The course culminates with an extensive white paper and oral presentation concerning a current national security policy of the United States or a foreign country if the policy impacts the security posture of the United States.toms.

PreRequisites: NSCS2011 - INTELLIGENCE ANALYSIS & PRESENTATION TECHNIQUES (CRIM2011)

**NURG5002****NURSING THEORY & RESEARCH****Credits (Min/Max): 4/4**

This course is designed to provide the student with knowledge about the interaction of theory and research for the acquisition of knowledge and for advanced nursing practice. It focuses on the value of scientific evidence and nursing as a discipline as the basis for providing quality care and improving nursing practice. The student will develop an understanding of the research process, acquire the knowledge and skills needed to critically evaluate nursing research and evidence-based practice. The interrelationship of theory and research will be explored, and extant theories that guide nursing practice will be examined.

**NURG5013****ROLE DEVELOPMENT OF THE NURSE ADMINISTRATOR & NURSE EDUCATOR****Credits (Min/Max): 2/2**

This course is designed to assist the student in defining and developing the advanced practice role of nurse educator or nurse administrator. The student will explore the core competencies of the roles of nurse educator or nurse administrator as these are enacted within the context of traditional and nontraditional health care and educational systems. From a theoretical perspective or role development, the student will begin to synthesize a personal framework for practice within the selected role.

**NURG5020****HEALTH POLICY****Credits (Min/Max): 3/3**

This course is designed to assist the student in understanding health care policy in the United States. This course critically examines the national health care agenda and nursing's role in relation to the health of the nation, global health, and global health policy. Federal, state, and local political structure and function are examined along with the hierarchy of political involvement, interest groups and lobbyists, advocacy strategies and ethical issues and the public policy change process. An overview of health care finance as it relates to health care systems/services is presented and strategies for influencing the regulatory process will be explored.

**NURG5033****NURSING INFORMATICS IN NURSING ADMINISTRATION & NURSING ED****Credits (Min/Max): 3/3**

This course is designed to provide the student with concepts of healthcare and nursing informatics for the nurse administrator and nurse educator integrating nursing science with computer technology and information science to identify, gather, process, and manage information. Current technology based health applications which support clinical, administrative, research, and educational processes and decision making will be emphasized. Trends and issues in using, designing, and managing health care information systems will be included as well as ethical and legal principles as they apply to health care information systems. Identifying and using appropriate technology for the task or project will also be discussed.

**NURG5035****HUMAN DIVERSITY & SOCIAL ISSUES IN NURSING ADMINISTRATION & NURSING EDUCATION****Credits (Min/Max): 3/3**

This course is designed to provide the student with an overview of human diversity and societal issues impacting nursing administration and nursing education. Strategies for incorporating diversity within the educational and work environment will be explored.

**NURG6000****CAPSTONE RESEARCH EXPERIENCE****Credits (Min/Max): 3/3**

This second research course is designed to provide the student with the opportunity to apply theoretical concepts and skills from the research methodology course and graduate nursing courses to the development of a capstone research experience. The student is guided in the preparation of a project specific to a phenomena related to nursing practice in the area of graduate study. Emphasis is placed on responsible participation in scientific inquiry and on adherence to principles of ethical research.

PreRequisites: NURG5002 - NURSING THEORY & RESEARCH

**NURU1000****INTRODUCTION TO NURSING****Credits (Min/Max): 3/3**

This course is designed to provide an introduction to the organizational framework of the ASN program and to the profession of nursing. Concepts related to the nurse, client and the environment are presented. The student is introduced to the processes fundamental to nursing practice (nursing process, caring, communication/documentation and teaching/learning). In addition, selected theories and concepts applicable to a variety of client needs and settings are introduced.

**NURU1005****FOUNDATIONS OF CLINICAL NURSING****Credits (Min/Max): 3/3**

This course is designed to provide students with the fundamental knowledge and skills necessary for the safe provision of therapeutic interventions for clients throughout the lifespan within the context of the nursing process. The student will develop beginning competence in performing basic nursing and physical assessment skills in the laboratory classroom. Opportunity for the student to apply knowledge from Introduction to Nursing as well as basic nursing and physical assessment skills with adult clients and their families will occur in the clinical component of this course.

**NURU1005A****FOUNDATIONS OF CLINICAL NURSING- CLINICAL****Credits (Min/Max): 0/3**

This course is designed to provide knowledge and skills necessary for the safe provision of basic therapeutic interventions for patients throughout the lifespan within the context of the nursing process. The student will develop beginning competence in performing basic nursing and physical assessment skills in the laboratory classroom. Opportunity for the student to apply knowledge from Introduction to Nursing as well as basic nursing and physical assessment skills with adult clients and their families will occur in the clinical component of this course.

**NURU1005B****FOUNDATIONS OF CLINICAL NURSING- CLINICAL****Credits (Min/Max): 0/3**



This course is designed to provide knowledge and skills necessary for the safe provision of basic therapeutic interventions for patients throughout the lifespan within the context of the nursing process. The student will develop beginning competence in performing basic nursing and physical assessment skills in the laboratory classroom. Opportunity for the student to apply knowledge from Introduction to Nursing as well as basic nursing and physical assessment skills with adult clients and their families will occur in the clinical component of this course.

**NURU1005C**  
**FOUNDATIONS OF CLINICAL NURSING- CLINICAL**  
**Credits (Min/Max): 0/0**

This course is designed to provide knowledge and skills necessary for the safe provision of basic therapeutic interventions for patients throughout the lifespan within the context of the nursing process. The student will develop beginning competence in performing basic nursing and physical assessment skills in the laboratory classroom. Opportunity for the student to apply knowledge from Introduction to Nursing as well as basic nursing and physical assessment skills with adult clients and their families will occur in the clinical component of this course.

**NURU1005L**  
**FOUNDATIONS OF CLINICAL NURSING**  
**Credits (Min/Max): 3/3**

This course is designed to provide knowledge and skills necessary for the safe provision of basic therapeutic interventions for patients throughout the lifespan within the context of the nursing process. The student will develop beginning competence in performing basic nursing and physical assessment skills in the laboratory classroom. Opportunity for the student to apply knowledge from Introduction to Nursing as well as basic nursing and physical assessment skills with adult clients and their families will occur in the clinical component of this course.

**NURU2000**  
**MEDICAL SURGICAL NURSING OF THE ADULT I**  
**Credits (Min/Max): 6/6**

This course is designed to introduce students to the concepts foundational to the practice of medical surgical nursing of the adult client. In addition, the nursing process is used as the framework to explore the care of clients experiencing common acute and chronic disorders. Health promotion, disease prevention, health restoration, and care of the dying are explored as related to the disorders presented. Skills related to safe administration of medication, intravenous therapy, oxygen therapy and care of the client with wounds and selected orthopedic conditions will be presented in the classroom laboratory. Students will be guided in the application of knowledge and skills in the acute care setting with adult and elderly clients/families.

PreRequisites: NURU1000 - INTRODUCTION TO NURSING

**NURU2000C**  
**MEDICAL SURGICAL NURSING OF THE ADULT I-CLINICAL**  
**Credits (Min/Max): 0/0**

Clinical for Medical Surgical Nursing

**NURU2000L**  
**MEDICAL SURGICAL NURSING OF THE ADULT I-LAB**  
**Credits (Min/Max): 0/0**

The focus of this course is the application of the nursing process to address adaptation to actual or potential health problems of the adult and their families with selected acute and chronic illnesses. Health promotion and disease prevention for young, middle-aged and older adults are also explored. Skills related to the safe administration of medications, intravenous fluids, and medical-surgical procedures will be practiced in the clinical laboratory and assessment skills will be further developed. The student will be guided in the application of knowledge and skills in the acute care setting with adult and elderly patients/families.

**NURU2005**  
**LPN to RN TRANSITION COURSE**  
**Credits (Min/Max): 3/3**

The licensed practical nurse (LPN) student enters the ASN program as a provider of care practicing within the standards of practice, code of ethics, and state board of nursing regulations for the LPN. This course is designed to assist the LPN to build upon this knowledge as the student makes the transition to the role of the registered nurse (RN). The student will be introduced to the conceptual framework of the ASN program and will explore the professional nursing roles, ANA scope, standards of practice, code of ethics and PA nurse practice act. The nursing process, caring, communication, documentation, and the teaching learning process as practiced by the registered nurse will be explored. Basic assessment skills, medication preparation, administration and IV therapy skills and other fundamental nursing skills will be evaluated.

**NURU2010**  
**MENTAL HEALTH NURSING**  
**Credits (Min/Max): 4/4**

This course is designed to introduce students to the concepts of mental health-mental illness across the lifespan. Utilizing the nursing process as the framework students will care for clients experiencing mental health problems. Therapeutic communication, developmental theories, and changes in behavior patterns are presented and explored. Students will be guided in the application of principles from biologic and behavioral sciences and nursing to assist the client and family to adapt to stressors and disruptions in mental health and mental health disorders. Health promotion and disease prevention as well as socio-cultural perspectives related to mental health will be studied. The clinical experience is structured to provide students with the opportunity to provide safe, quality care based on the nursing process to clients and families in various psychiatric mental health settings.

PreRequisites: NURU2000 - MEDICAL SURGICAL NURSING OF THE ADULT I

**NURU2010C**  
**MENTAL HEALTH NURSING-CLINICAL**  
**Credits (Min/Max): 0/0**

Clinical for Mental Health Nursing

**NURU2012**  
**CHILDBEARING & WOMEN'S HEALTH NURSING**  
**Credits (Min/Max): 4/4**

This course is designed to explore the role of the nurse in family centered care of the childbearing family before, during and after birth. Concepts and issues related to health promotion, disease prevention and illness, and care of women throughout the lifespan will also be addressed. Application of the nursing process in caring for childbearing women and their families will be emphasized. The clinical experience is structured to provide students with the opportunity to provide safe, quality care based on the nursing process to childbearing women and families in a variety of settings.

PreRequisites: NURU2010 - MENTAL HEALTH NURSING

**NURU2012C**  
**CHILDBEARING & WOMEN'S HEALTH NURSING-CLINICAL**  
**Credits (Min/Max): 0/0**

Clinical for Childbearing & Women's Health Nursing

**NURU2015**  
**NURSING OF CHILDREN**  
**Credits (Min/Max): 4/4**

This course is designed to provide the student with knowledge of the role of the nurse in health promotion of children and families during illness. Utilization of the nursing process will be emphasized in caring for children with acute and chronic health problems in a variety of ambulatory, community, acute, and transitional care settings. The clinical experience is structured to provide students with the opportunity to provide safe, quality care based on the nursing process to children and families in various pediatric health settings.

PreRequisites: NURU2010 - MENTAL HEALTH NURSING

**NURU2015C**  
**NURSING OF CHILDREN-CLINICAL**  
**Credits (Min/Max): 0/0**

Clinical for Nursing of Children

**NURU2018C**  
**COMMUNITY HEALTH NURSING -CLINICAL**  
**Credits (Min/Max): 0/0**

Clinical for Community Health Nursing.

**NURU2020**  
**PHARMACOLOGY FOR NURSING PRACTICE**  
**Credits (Min/Max): 2/2**

This course is designed to introduce the student to the pharmacokinetics and pharmacodynamics of drug therapy with emphasis on the actions, interactions, adverse effects and nursing implications of each classification of drugs used to treat clients with diseases of body systems. Focus includes lifespan considerations, economics, legal, and ethical aspects of drug administration and client education.

PreRequisites: NURU1000 - INTRODUCTION TO NURSING

**NURU2025**  
**HIGH ACUITY NURSING**  
**Credits (Min/Max): 6/6**

This course is designed to provide the student with the advanced knowledge and skills required to care for patients and families experiencing complex and catastrophic stressors and complex acute and chronic illnesses. The use of technologies is integrated into the nursing process to provide safe, effective nursing care for patients as they adapt to these stressors. Application of the caring approach based on psychophysical and sociocultural concerns of clients and families is stressed. Precepted practice in critical care settings and clinical time in other acute care settings will provide the student with opportunities to translate knowledge and skills from the classroom setting to care of patients and families with these complex illnesses.

PreRequisites: NURU2012 - CHILDBEARING & WOMEN'S HEALTH NURSING

#### **NURU2027**

##### **A COGNITIVE APPROACH TO CLINICAL REASONING IN NURSING**

**Credits (Min/Max): 3/3**

This course is designed to provide the student with clinical reasoning skills required by professional nurses. Factors that influence the ability to effectively solve problems are examined to facilitate higher level thinking in simulated clinical situations. Strategies to decrease anxiety and improve test performance are an integral part of the cognitive/behavioral approach in this course.

PreRequisites: NURU2012 - CHILDBEARING & WOMEN'S HEALTH NURSING

#### **NURU2030**

##### **TRANSITION FROM STUDENT TO GRADUATE**

**Credits (Min/Max): 3/3**

This course is designed to introduce the student to the leadership role of the nurse in the provision of nursing care. Principles of management including delegation and legal aspects of management will be explored. The importance of appropriate and ethical use of resources and the sociopolitical issues related to health care and nursing are emphasized. The role of the nursing process in providing care for a group of patients is also explored. The changing dimensions of nursing as a profession and the commitment of the individual nurse to the advancement of nursing are investigated. Clinical experience will afford the student the opportunity to link the concepts with practice and is carried out under the direct supervision of a preceptor and through the guidance of course faculty.

PreRequisites: NURU2012 - CHILDBEARING & WOMEN'S HEALTH NURSING

#### **NURU2121**

##### **MEDICAL SURGICAL NURSING OF THE ADULT II**

**Credits (Min/Max): 4/4**

This course is a continuation of MS I and is designed to provide the students with the knowledge and skills required to care for adult clients and families experiencing selected acute and chronic disorders. Health promotion, disease prevention, rehabilitation, and restorative care of selected disorders will be explored. The students nursing care ability will be further developed during the instructor facilitated clinical experience.

PreRequisites: NURU2010 - MENTAL HEALTH NURSING

#### **NURU3020**

##### **HEALTH ASSESMENT IN NSG PRACTICE**

**Credits (Min/Max): 3/3**

This course focuses on health assessment, health promotion, and disease prevention for major health concerns of individuals throughout the life span. Emphasis will be placed on refining the registered nurse's ability to develop an in-depth health history and health risk profile and to perform physical assessment of clients of varying ages. Evidence-based screening tests for early detection of disease, immunizations and prophylaxis to prevent disease and counseling to modify risk factors that lead to disease will be explored.

#### **NURU3021**

##### **LEADERSHIP IN NURSING**

**Credits (Min/Max): 3/3**

This course is designed to provide students an opportunity to enhance their leadership skills. The principles of leadership and management which enable the registered nurses to assume a more advanced leadership role will be examined. Effective leadership for the current less structured yet increasingly complex health care environment will be explored. Personal, professional, legal and ethical values in professional nursing practice will be examined. Nursing research will be related to the leadership role.

#### **NURU3022**

##### **HEALTH TEACHING**

**Credits (Min/Max): 3/3**

In this course students will be guided in appropriating knowledge foundational to health teaching. They will interrogate the concept of health, theories of teaching-learning and the connection among health beliefs, the nurse-family interrelationship and patterns of health practice. They will be invited to apply foundational knowledge to health teaching within institutional guidelines and changing health care environments. They will explore legal and ethical implications inherent in health teaching. Students will be guided in proposing implications for nursing research and practice in health teaching.

#### **NURU3023**

##### **NURSING RESEARCH I**

**Credits (Min/Max): 3/3**

This course is designed to explore the nature, value, and utility of nursing research. An overview of the process by which research is conceived and conducted is presented, with emphasis on varying approaches and methodologies, conceptual consistency, and ethical considerations. Critical appraisal of published research affords the student the opportunity to become a more discriminating consumer of research and a better informed participant in the research process. The relationships among research, theory, and practice are presented and linked to the student's arena of practice.

**NURU3024**  
**NURSING DURING ACUTE ILLNESS**  
**Credits (Min/Max): 3/3**

The focus of this course is on the health care needs of acutely ill individuals. Emphasis will be on nursing interventions to assist individuals and families as they respond to acute illness. Nursing care necessary for stabilization, health restoration and rehabilitation will also be examined. Issues of significance to the acutely ill.

**NURU3025**  
**NURSING OF THE ADOLESCENT**  
**Credits (Min/Max): 3/3**

This course will provide the student with knowledge of the physical, emotional, intellectual and social health care dimensions of the adolescent in our society. The focus will be on the adolescent's developing health care needs and the role of the community, school or pediatric nurse who works with and cares for adolescents. Nursing interventions to promote health and prevent illness, including restorative and rehabilitative processes, will be examined.

**NURU3025B**  
**NURSING CARE OF THE ADOLESCENT- CLINICAL**  
**Credits (Min/Max): 0/0**

This course will provide the student with knowledge of the physical, emotional, intellectual and social health care dimensions of the adolescent in our society. The focus will be on the adolescent's developing health care needs and the role of the community, school or pediatric nurse who works with and cares for adolescents. Nursing interventions to promote health and prevent illness, including restorative and rehabilitative processes, will be examined.

**NURU3027**  
**MENTAL HEALTH NURSING**  
**Credits (Min/Max): 3/3**

This course is designed to examine the role of the nurse in care of individuals with common mental health disorders in primary care settings. The concepts of mental health and mental illness will be explored from neurobiological, personal, interpersonal and societal perspectives. Current mental health policies and initiatives and related nursing research will also be explored.

**NURU3027A**  
**MENTAL HEALTH NURSING**  
**Credits (Min/Max): 3/3**

This course is designed to examine the role of the nurse in care of individuals with common mental health disorders in primary care settings. The concepts of mental health and mental illness will be explored from neurobiological, personal, interpersonal and societal perspectives. Current mental health policies and initiatives and related nursing research will also be explored.

**NURU3027B**  
**MENTAL HEALTH NSG-CLINICAL**  
**Credits (Min/Max): 0/0**

This course is designed to examine the role of the nurse in care of individuals with common mental health disorders in primary care settings. The concepts of mental health and mental illness will be explored from the neurobiological, personal, interpersonal and societal perspective. Current mental health care policies and initiatives and related nursing research will also be explored.

**NURU3028**  
**OVERVIEW OF GERONTOLOGICAL NURSING**  
**Credits (Min/Max): 3/3**

This course is designed to offer students the opportunity to interrogate issues that interface with the expanding specialty of gerontological nursing. Students will be guided in exploring the relationship between the aging process and the emergence of common health problems in older people. Ethical-legal issues surfacing in gerontological nursing will be examined. Students will have the opportunity to suggest strategies for nursing practice with older persons and their families.

**NURU4012**  
**INTRO TO NURSING INFORMATICS**  
**Credits (Min/Max): 3/3**

The course introduces the student to the nursing and healthcare informatics field. Included is a brief history and evolution of health care technology, selected concepts, theories and models related to healthcare information systems, current systems and their uses, and trends and future directions of nursing and healthcare system. Knowledge and skill in information processing and data management, professional roles and responsibilities of an informatics nurse as a project team member, and systems design model will also be introduced.

#### **NURU4020**

##### **CURRENT ISSUES IN NURSING**

**Credits (Min/Max): 3/3**

This course is designed to examine selected issues in nursing and health care with a focus on contemporary situations. Students will be provided the opportunity to identify nursing practice issues and suggest strategies to address them. Principles and techniques of developing a logically constructed argument reflecting a particular viewpoint about a selected issue will be presented.

#### **NURU4021**

##### **COMMUNITY NURSING I**

**Credits (Min/Max): 3/3**

This course is designed to expand the students' knowledge of nursing by acquainting them with concepts and principles of public health and community health nursing. Students will utilize their knowledge and understanding of nursing, humanities, natural and applied sciences with community nursing skills to provide care for individuals and families in a variety of community health care systems. The course focuses on levels of prevention, and ethical and legal issues in community health nursing practice and the right of families to make decisions about health care. Students will examine the differences that exist in the cultural, social and religious differences between the nurse and client and the impact of this on community nursing practice.

#### **NURU4021A**

##### **COMMUNITY NURSING I**

**Credits (Min/Max): 3/3**

This course is designed to expand the students' knowledge of nursing by acquainting them with concepts and principles of public health and community health nursing. Students will utilize their knowledge and understanding of nursing, humanities, natural and applied sciences with community nursing skills to provide care for individuals and families in a variety of community health care systems. The course focuses on levels of prevention, health promotion and disease prevention, and ethical and legal issues in community health nursing practice and the right of families to make decisions about health care. Students will examine the differences, which may exist in the cultural, social and religious differences between the nurse and client and the impact of this on community health nursing practice.

#### **NURU4021B**

##### **COMMUNITY NURSING I-CLINICAL**

**Credits (Min/Max): 1/1**

This course is designed to provide the student with the expanded opportunity to apply the principles of community health nursing to the health needs of a community. The health status of a community is assessed and the community health needs and the potential of the community to meet the needs is identified. Political, economic and environmental factors and their influence on health and the delivery of health care are reviewed and analyzed. Focus is on disease prevention and health promotion, education and maintenance.

#### **NURU4023**

##### **NURSING RESEARCH II**

**Credits (Min/Max): 3/3**

This course is designed to provide the opportunity for continued investigation into the role of research in nursing practice. Through a variety of research activities students will be invited to apply the concepts of research and the research process that were presented in Nursing Research I to an independent exploration of a selected area of interest in nursing.

PreRequisites: NURU3023 - NURSING RESEARCH I

#### **NURU4024**

##### **HEALING IN NURSING PRACTICE**

**Credits (Min/Max): 3/3**

This course is a nursing elective in which students will have the opportunity to focus on the philosophical and theoretical foundations of healing within the context of nursing practice. Students will examine ways of healing in nursing that complement traditional allopathic medicine. Some of these include: guided imagery, relaxation response, music, biofeedback, and acupuncture. Students also have the opportunity to explore the theory and practice of therapeutic touch as a unique healing modality of nursing. Students will derive implications for nursing research and evaluate recent research related to healing.

#### **NURU4026**

##### **LEGAL ASPECTS OF NURSING PRACTICE**

**Credits (Min/Max): 3/3**

This course is designed to examine the relationship among the legal rights, responsibilities, and obligations of the practicing professional nurse in today's complex and changing health care delivery environments and systems. The implications for legal and ethical decision making will be applied to a variety of situations within institutional and community settings.

**NURU4027**  
**HEALTH CARE FOR WOMEN**  
**Credits (Min/Max): 3/3**

In this course, students will have the opportunity to explore the historical and contemporary health experiences of women with an emphasis on their current health care needs. Students will review the changing role of women in society, the women's movement, and feminism as factors which have influenced women's health care and professional nursing practice.

**NURU4029**  
**COMMUNITY NURSING II**  
**Credits (Min/Max): 3/3**

This course is designed to provide the student with the continued opportunity to apply the principles of the nursing process to the health needs of a community based population. The community itself is the client. The epidemiological process is used to assess the health status of a community and to identify community needs and the potential to address those needs. Political, economic and environmental factors and their influence on health and the delivery of health care are reviewed and analyzed. Focus is on disease prevention and health promotion, education and maintenance.

PreRequisites: NURU4021 - COMMUNITY NURSING I

**NURU4030**  
**CHILD HEALTH IN AN INCLUSIVE SETTING**  
**Credits (Min/Max): 4/4**

The course is designed to guide students in coming to understand the scope and responsibilities of the school nurse in assessing, planning, implementing and evaluating school health for children K-12. The role of the school nurse in meeting the health care needs of all children, including healthy children, special needs children, children from different cultures, and children with ELL needs will be a primary focus. Emphasis is on health promotion and maintenance at all levels of a child's development. The unique role of the school nurse in caring for children as well as collaborating with parents will be emphasized. Students will utilize evidence-based nursing practice as a basis for nursing care and school personnel. The course includes a 100 hour practicum under the guidance of a certified school nurse.

PreRequisites: EDSP3015 - INTRO TO LOW INCIDENCE DISABILITIES

**NURU4032**  
**NURSE PRACTICE WITH FATALLY ILL**  
**Credits (Min/Max): 3/3**

This course is designed to offer students the opportunity to interrogate the concepts of fatal illness as they are lived in the practice of professional nursing. Fatal illness will be explored within the context of death as a natural process of living and the odyssey of modern dying structures. Students will be guided in coming to understand the myriad profiles of grief and bereavement as they explore the faces of loss, the changing nature of hope and the work of grief. Ethical and legal issues in the dying process and preparedness for death will be examined. Students will be guided to explore dimensions of professional nursing practice with fatally ill persons and their families.

**NURU4033**  
**CONCEPTS & CONTROVERSIES IN NSG PRACTICE WITH AGED PERSONS**  
**Credits (Min/Max): 3/3**

This course is designed to explore selected concepts and subconcepts out of which surface controversies in nursing practice with older persons and their families. The focus is on the demographic shift, legal-ethical issues and research with older persons. Students will be guided to analyze the concepts as ground for nursing practice and to dialogue decision-making strategies relative to controversies encountered in practice with older persons.

**NURU4035**  
**STRUCTURES INFLUENCING THE FAMILY/NURSE/PHYSICIAN RELATION**  
**Credits (Min/Max): 3/3**

This course is designed to explore a framework of fact, myth, symbol and stereotype that influence the delivery of health care to families. The focus is on the complex web of communication in the interrelationship of family-nurse-physician. Students will be guided to analyze power and authority in the health care work force within the historical context of changing expectations and responsibilities.

**NURU4036**  
**FAMILY HEALTH NURSING**  
**Credits (Min/Max): 3/3**

This course is designed to assist the nurse in provision of nursing care to patients and their families. The focus is on the knowledge base needed to care for, promote health, and prevent illness of families and on the role of the nurse in assisting families as they adapt to changes in health and illness. Students will apply the knowledge to various issues encountered in working with and caring for families.

**NURU4037**  
**HEALTH CARE FOR MEN**  
**Credits (Min/Max): 3/3**

In this course students will have the opportunity to explore the historical and contemporary health experiences of men with an emphasis on their current health care needs in regard to conditions and/or diseases that are unique to men. It will provide information about risk factors for different ages and populations for various health issues and diseases related exclusively to men. Physical, mental, emotional, social and spiritual aspects of men's lives are explored, including family, community, society, institutions and the environment on the health of men.

#### **NURU4040**

##### **FOUNDATIONS OF FORENSIC NURSING**

**Credits (Min/Max): 4/4**

This course is designed to explore the unique roles and responsibilities of the forensic nurse in the care of victims of violence. The scientific investigation, evidence collection and preservation, and prevention and treatment of trauma will be explored from the perspective of the forensic nurse.

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

#### **PART1000**

##### **FR PERFORMANCE**

**Credits (Min/Max): 1/1**

This course is designed to develop the artist's comprehension and execution of various forms of repertoire in an effort to guide the student's body and mind towards an articulate performance. This course is designed to offer the artist an array of dance voices via the recruitment of various guest choreographers to set original works for performance, the rights to learn and perform previously established works by established choreographers, and the opportunity to create and set creative works among the student population.

#### **PART1001**

##### **MUSIC APPRECIATION I(SLAE1007)**

**Credits (Min/Max): 3/3**

An overview of musical eras from the Middle Ages through the 20th Century (Bach, Beethoven and the boys). Various listening activities are geared for the non-musician. Cross-listed with SLAE1007

#### **PART1002**

##### **MUSIC APPRECIATION II (SLAE1009)**

**Credits (Min/Max): 3/3**

An introduction to jazz for the non-musician. Eras covered include the roots of jazz, blues, ragtime, swing, bop, cool, jazz rock, jazz fusion and current trends. Jazz artists ranging from Louis Armstrong and Ella Fitzgerald to Harry Connick, Jr. and Diana Krall. Cross-listed with SLAE1009

#### **PART1004**

##### **FR BALLET TECHNIQUE**

**Credits (Min/Max): 3/3**

This course is designed to develop the artist's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and precision. The artist will work to demonstrate a clear articulation of the French ballet vocabulary, the direct translation of the vocabulary into English, and the exact articulation of each movement as it is accomplished at both the barre and in centre practice.

#### **PART1005**

##### **FR CONTEMPORARY/MODERN**

**Credits (Min/Max): 3/3**

This class is designed to develop the artist's use of space, emotion, mood, and the deliberate use of gravity. This course will focus on traditional modern dance techniques such as Graham, Lewitsky, and Cunningham technique in addition to contemporary dance styles inclusive of release technique, contemporary ballet, and Bodiography technique.

#### **PART1006**

##### **JAZZ--LEVEL ONE**

**Credits (Min/Max): 2/2**

This course is designed to acquaint the student with a beginning level of jazz dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study jazz history through videos and will be required to attend a live dance performance. Students must complete a total of 8 credits in this course.

#### **PART1008**

##### **FR POINTE**

**Credits (Min/Max): 1/1**

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

**PART1009**  
**FR POINT/PAS DE DEUX**  
**Credits (Min/Max): 1/1**

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

**PART1010**  
**SO PAS DE DEUX**  
**Credits (Min/Max): 1/1**

The student will learn the basic techniques required to perform classical partnering. Techniques will include various styles, lifts, supported pirouettes, and promenades. Contemporary partnering will be studied with respect to jazz and modern.

**PART1012**  
**FR VARIATIONS/REPertoire**  
**Credits (Min/Max): 1/1**

Variations/Repertoire - is a course that explores various notable ballet and contemporary variations. Focusing on ballet technique and performance quality, this course seeks to expand on the student's dance performance knowledge and ability while exposing them to a wide selection of repertoire.

**PART1018**  
**ETHNIC/DUNHAM TECHNIQUE**  
**Credits (Min/Max): 1/1**

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

**PART1020**  
**FR MEN'S DANCE TECHNIQUE**  
**Credits (Min/Max): 1/1**

This class is designed to develop the male dancer's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and a love of dance. Placement will be determined by previous training and student potential as demonstrated in the audition process. Male students must complete a total of 8 credits in this course.

**PART1022**  
**FUNDAMENTALS OF MUSIC I (SLAE1012)**  
**Credits (Min/Max): 3/3**

A hands-on introduction to the language of music (notation, scales, melody, harmony, etc.) using recorders, percussion and listening examples from various musical genres. This class is built for the non-musician. Cross-listed with SLAE1012

**PART1023**  
**CHORUS**  
**Credits (Min/Max): 1/1**

The Choir of La Roche College provides an opportunity for students, faculty and staff to explore and perform group vocal music. Selected repertoire represents a wide variety of styles from the western European and American traditions, with special attention to other world music traditions. The choir presents several major concerts each year and participates in community projects throughout Southwestern Pennsylvania.

**PART1024**  
**INDIVIDUAL INSTRUCTION--VOICE**  
**Credits (Min/Max): 1/1**

This course consists of individual instruction in voice. The course is designed for both beginner and more advanced students. Private interview will determine level of instruction.

**PART1025**  
**INDIVIDUAL INSTRUCT--INSTRUMENT**  
**Credits (Min/Max): 1/1**

This course consists of individual instruction on a selected instrument. The course is designed for both beginner and more advanced students. Private interview will determine level of instruction.



**PART1036****FR CHARACTER****Credits (Min/Max): 1/1**

Character dance steps and national styles used in ballet and modern dance.

**PART1050****JAZZ/HIP HOP-DANCE ELECTIVE****Credits (Min/Max): 1/1**

This is a one-hour course in the techniques of hip-hop dance.

**PART2001****SO PERFORMANCE****Credits (Min/Max): 1/1**

This course is designed to develop the artist's comprehension and execution of various forms of repertoire in an effort to guide the student's body and mind towards an articulate performance. This course is designed to offer the artist an array of dance voices via the recruitment of various guest choreographers to set original works for performance, the rights to learn and perform previously established works by established choreographers, and the opportunity to create and set creative works among the student population.

**PART2004****SO BALLET TECHNIQUE****Credits (Min/Max): 3/3**

This course is designed to develop the artist's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and precision. The artist will work to demonstrate a clear articulation of the French ballet vocabulary, the direct translation of the vocabulary into English, and the exact articulation of each movement as it is accomplished at both the barre and in centre practice.

**PART2005****SO CONTEMPORARY/MODERN****Credits (Min/Max): 3/3**

This class is designed to develop the artist's use of space, emotion, mood, and the deliberate use of gravity. This course will focus on traditional modern dance techniques such as Graham, Lewitsky, and Cunningham technique in addition to contemporary dance styles inclusive of release technique, contemporary ballet, and Bodiography technique.

**PART2006****SO JAZZ****Credits (Min/Max): 2/2**

This course is designed to acquaint the student with a beginning level of jazz dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study jazz history through videos and will be required to attend a live dance performance. Students must complete a total of 8 credits in this course.

**PART2008****SO POINTE****Credits (Min/Max): 1/1**

A study of the basic techniques of dancing on pointe. Correct pointe positions and exercises for strengthening of feet and legs will be emphasized. Execution of movements will lead to performance of variations from classical ballet and various other styles. Females must complete a total of 8 credits in this course.

**PART2009****SO POINTE/PAS DE DEUX****Credits (Min/Max): 1/1**

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

**PART2010****DANCE HISTORY I****Credits (Min/Max): 3/3**

Overview of the development of dance in the western world, within the context of the historical, practical, theoretical, and cultural.

**PART2012****SO VARIATIONS/REPERTOIRE****Credits (Min/Max): 1/1**

Variations/Repertoire - is a course that explores various notable ballet and contemporary variations. Focusing on ballet technique and performance quality, this course seeks to expand on the student's dance performance knowledge and ability while exposing them to a wide selection of repertoire.

**PART2015**  
**DANCE HISTORY II**  
**Credits (Min/Max): 3/3**

An introductory history of the development of dance. Dance will be examined as a form of human expression. Forms of ritual as well as art forms will be analyzed. Ballet, modern and jazz will be emphasized from their beginnings through their evolution to contemporary choreographed styles.

PreRequisites: PART2010 - DANCE HISTORY I

**PART2018**  
**ETHNIC/DUNHAM TECHNIQUE**  
**Credits (Min/Max): 1/1**

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

**PART2020**  
**SO MEN'S DANCE TECHNIQUE**  
**Credits (Min/Max): 1/1**

This class is designed to develop the male dancer's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and a love of dance. Placement will be determined by previous training and student potential as demonstrated in the audition process. Male students must complete a total of 8 credits in this course.

**PART2025**  
**HISTORY OF MUSICAL THEATER (SLAE1097)**  
**Credits (Min/Max): 3/3**

A survey of musical theater and its development from its roots through the early 20th century, the Ziegfield follies, the 1920's in New York, Broadway and Hollywood in the 1930's, the golden age of musicals and movies up to and including today's musical theater. Cross-listed with SLAE1097

**PART2036**  
**SO CHARACTER**  
**Credits (Min/Max): 1/1**

Character dance steps and national styles used in ballet and modern dance.

**PART3000**  
**JR PERFORMANCE**  
**Credits (Min/Max): 1/1**

This course is designed to develop the artist's comprehension and execution of various forms of repertoire in an effort to guide the student's body and mind towards an articulate performance. This course is designed to offer the artist an array of dance voices via the recruitment of various guest choreographers to set original works for performance, the rights to learn and perform previously established works by established choreographers, and the opportunity to create and set creative works among the student population.

**PART3002**  
**MUSICAL THEATRE PRODUCTION I**  
**Credits (Min/Max): 3/3**

Dance production is a laboratory course providing each student with opportunity for hands-on training in the technical and performing aspects of theater. Each individual will be able to extend and broaden their production and performing experience.

**PART3003**  
**MUSICAL THEATRE PRODUCTION II**  
**Credits (Min/Max): 3/3**

Dance production is a laboratory course providing each student with opportunity for hands-on training in the technical and performing aspects of theater. Each individual will be able to extend and broaden their production and performing experience.

**PART3004**  
**JR BALLET TECHNIQUES**  
**Credits (Min/Max): 3/3**

This course is designed to develop the artist's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and precision. The artist will work to demonstrate a clear articulation of the French ballet vocabulary, the direct translation of the vocabulary into English, and the exact articulation of each movement as it is accomplished at both the barre and in centre practice.

**PART3005**

**JR CONTEMPORARY/MODERN**

**Credits (Min/Max): 3/3**

This class is designed to develop the artist's use of space, emotion, mood, and the deliberate use of gravity. This course will focus on traditional modern dance techniques such as Graham, Lewitsky, and Cunningham technique in addition to contemporary dance styles inclusive of release technique, contemporary ballet, and Bodiography technique.

**PART3006**

**JR JAZZ**

**Credits (Min/Max): 2/2**

This course is designed to acquaint the student with a beginning level of jazz dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study jazz history through videos and will be required to attend a live dance performance. Students must complete a total of 8 credits in this course.

**PART3008**

**JR POINTE**

**Credits (Min/Max): 1/1**

A study of the basic techniques of dancing on pointe. Correct pointe positions and exercises for strengthening of feet and legs will be emphasized. Execution of movements will lead to performance of variations from classical ballet and various other styles. Females must complete a total of 8 credits in this course.

**PART3009**

**JR POINTE/PAS DE DEUX**

**Credits (Min/Max): 1/1**

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

**PART3010**

**JR PAS DE DEUX**

**Credits (Min/Max): 1/1**

The student will learn the basic techniques required to perform classical partnering. Techniques will include various styles, lifts, supported pirouettes, and promenades. Contemporary partnering will be studied with respect to jazz and modern.

**PART3012**

**JR VARIATIONS/REPertoire**

**Credits (Min/Max): 1/1**

Variations/Repertoire - is a course that explores various notable ballet and contemporary variations. Focusing on ballet technique and performance quality, this course seeks to expand on the student's dance performance knowledge and ability while exposing them to a wide selection of repertoire.

**PART3015**

**DANCE PEDAGOGY I**

**Credits (Min/Max): 3/3**

This course is an overview of dance teaching as a profession including requirements, challenges, and opportunities. Includes 10 hours of clinical laboratory experiences, directed observations, and limited participation in classroom settings. The material covered in this course equips the teaching candidate with a basis for forming a personal teaching philosophy and methods in its practical application to dance technique classes in a variety of teaching settings.

**PART3018**

**ETHNIC/DUNHAM TECHNIQUE**

**Credits (Min/Max): 1/1**

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

**PART3020**  
**JR MEN'S DANCE TECH**  
**Credits (Min/Max): 1/1**

This class is designed to develop the male dancer's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and a love of dance. Placement will be determined by previous training and student potential as demonstrated in the audition process. Male students must complete a total of 8 credits in this course.

**PART3030**  
**DANCE COMPOSITION I**  
**Credits (Min/Max): 3/3**

Dance composition is a comprehensive study, navigation, and connection of choreographic structures to create a unified work of choreography that is prepared for performance. All movement language is taken from the techniques of ballet, contemporary, jazz, hip hop, folk, religious, and pedestrian movement.

**PART3036**  
**JR CHARACTER**  
**Credits (Min/Max): 1/1**

Character dance steps and national styles used in ballet and modern dance.

**PART3050**  
**SPECIAL TOPICS-TAP**  
**Credits (Min/Max): 1/1**

Pilates emphasizes the balanced development of the body through core strength, flexibility, and awareness in order to support efficient, graceful movement. Pilates is about lengthening and strengthening your muscles, leading to increased strength and improved flexibility. Each exercise movement flows smoothly into the next, encouraging the body to learn and remember new ways of movement and being, a mind-body connection.ed.

**PART3050A**  
**HISTORY OF ROCK & ROLL:SPECIAL TOPIC(SLAE1011)**  
**Credits (Min/Max): 3/3**

An introduction to the early years of rock music (1950s - mid 1970s) for the non-musician. The class will include the roots of rock and roll, teen idols, the folk music craze, the British invasion, Motown, psychedelic music, singer-songwriters and the roots of metal. The history of the 50s and 60s will be highlighted by the various styles of music. *Cross-listed with SLAE1011*

**PART4000**  
**SR PERFORMANCE**  
**Credits (Min/Max): 1/1**

This course is designed to develop the artist's comprehension and execution of various forms of repertoire in an effort to guide the student's body and mind towards an articulate performance. This course is designed to offer the artist an array of dance voices via the recruitment of various guest choreographers to set original works for performance, the rights to learn and perform previously established works by established choreographers, and the opportunity to create and set creative works among the student population.

**PART4004**  
**SR BALLET TECHNIQUES**  
**Credits (Min/Max): 3/3**

This course is designed to develop the artist's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and precision. The artist will work to demonstrate a clear articulation of the French ballet vocabulary, the direct translation of the vocabulary into English, and the exact articulation of each movement as it is accomplished at both the barre and in centre practice.

**PART4005**  
**SR CONTEMPORARY/MODERN**  
**Credits (Min/Max): 3/3**

This class is designed to develop the artist's use of space, emotion, mood, and the deliberate use of gravity. This course will focus on traditional modern dance techniques such as Graham, Lewitsky, and Cunningham technique in addition to contemporary dance styles inclusive of release technique, contemporary ballet, and Bodiography technique.

**PART4006**  
**SR JAZZ**  
**Credits (Min/Max): 2/2**

This course is designed to acquaint the student with a beginning level of jazz dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study jazz history through videos and will be required to attend a live dance performance. Students must complete a total of 8 credits in this course.

**PART4008****SR POINTE****Credits (Min/Max): 1/1**

A study of the basic techniques of dancing on pointe. Correct pointe positions and exercises for strengthening of feet and legs will be emphasized. Execution of movements will lead to performance of variations from classical ballet and various other styles. Females must complete a total of 8 credits in this course.

**PART4009****SR POINTE/PAS DE DEUX****Credits (Min/Max): 1/1**

This course is designed to develop the artist's knowledge of pointe technique through the emphasis of strength, mechanics, artistry, and precision. The artist will work to demonstrate a clear articulation of the ballet vocabulary via the exact articulation of footwork in each movement as it is accomplished at both the barre and in centre practice. This class also designed to develop the artist's understanding of ballet and contemporary partnering. It will work to define the practices and techniques of shared movement and will encourage the artist to explore and examine how their individual body moves in space with another.

**PART4010****SR PAS DE DEUX****Credits (Min/Max): 1/1**

The student will learn the basic techniques required to perform classical partnering. Techniques will include various styles, lifts, supported pirouettes, and promenades. Contemporary partnering will be studied with respect to jazz and modern.

**PART4012****SR VARIATIONS/REPERTOIRE****Credits (Min/Max): 1/1**

Variations/Repertoire - is a course that explores various notable ballet and contemporary variations. Focusing on ballet technique and performance quality, this course seeks to expand on the student's dance performance knowledge and ability while exposing them to a wide selection of repertoire.

**PART4018****ETHNIC/DUNHAM TECHNIQUE****Credits (Min/Max): 1/1**

This course is designed to acquaint the student with a beginning level of modern dance technique and allow them to progress to a higher level of proficiency. The student dancer will study various techniques and learn to put the styles into combinations. Students will study the history of modern dance through videos. Students must complete a total of 4 credits in this course.

**PART4020****SR MEN'S DANCE TECH****Credits (Min/Max): 1/1**

This class is designed to develop the male dancer's knowledge of ballet technique through the emphasis of style, musicality, sensitivity, and a love of dance. Placement will be determined by previous training and student potential as demonstrated in the audition process. Male students must complete a total of 8 credits in this course.

**PART4030****DANCE COMPOSITION II****Credits (Min/Max): 3/3**

Dance composition II is a comprehensive development and departure from the studies of choreographic development in the preliminary composition course. This course is primarily focused on the creation of a larger group work and the presentation of that work without utilizing oneself as a key-performing participant.

**PART4036****SR CHARACTER****Credits (Min/Max): 1/1**

Character dance steps and national styles used in ballet and modern dance.

**PART4051****PERFORMING ARTS-INTERNSHIP I****Credits (Min/Max): 1/6**

The internship gives students an opportunity to study dance in a professional setting.

**PART4055****SENIOR SEMINAR IN PER ARTS/DANCE****Credits (Min/Max): 3/3**

An exploration of current trends, innovation and developments in dance in a seminar format. Students will discuss, compare and analyze ideas generated by assigned readings, as well as their work on capstone projects.

**PHIL1020**

**LOGIC**

**Credits (Min/Max): 3/3**

This course is designed to help the student understand the methods and principles necessary for correct reasoning. The correct use of reason is indispensable for written and spoken communication. The course deals with language and its uses, fallacies, propositions, syllogisms, inference, probability and scientific hypothesis.

**PHIL1021**

**INTRO TO PHILOSOPHY(SLRS1012)**

**Credits (Min/Max): 3/3**

This is a survey course that presents the principal philosophical problems, questions, and systems. Consideration is given to representative schools of philosophy, especially the foundational teachings in Plato and Aristotle. The relationship of philosophy to other disciplines, arts and sciences is examined. *Cross-listed with SLRS1012*

**PHIL2022**

**HISTORY OF GREEK PHILOSOPHY**

**Credits (Min/Max): 3/3**

This course examines the rise and development of philosophy in ancient Greece. This includes the pre-Socratic philosophers in relationship to the birth of the science of nature, the Sophists and philosophy as rhetoric and skepticism, Plato and the ascent toward wisdom, Aristotle and the analysis of being.

**PHIL2023**

**HISTORY OF MODERN PHILOSOPHY**

**Credits (Min/Max): 3/3**

The course examines the development of philosophy during the period of the scientific revolution from the 16th century through the 18th century. The problems discussed are: 1)the establishing of the conditions for the possibility of human knowledge, 2)determining the limits to that knowledge and 3)understanding the implications for the possibility of a science of nature and for the possibility of metaphysics as a science.

**PHIL2026**

**ETHICS(SLRS1013)**

**Credits (Min/Max): 3/3**

A survey of historical and contemporary responses to significant moral problems encountered in the Christian life. Topics include conscience, racism, peace and war, ecology, population control, economic justice and capital punishment. *Cross-listed with SLRS1013*

**PHIL3024**

**CONTEMPORARY PHILOSOPHY**

**Credits (Min/Max): 3/3**

The course examines the contemporary philosophies of existentialism, phenomenology, linguistic analysis and logical positivism. Some of the questions discussed are the impact of science on contemporary humans, the destruction of metaphysics and the problem of knowledge as seen from the perspective of the different philosophical movements.

**PHIL3027**

**BIOMEDICAL ETHICS**

**Credits (Min/Max): 3/3**

The course addresses significant ethical issues and controversies that occur in the health professions. Students are not encouraged to adopt any particular ethical position or view but rather gain an ability to review and analyze the reasons that support various norms and opinions in this field.

**PHYS1010**

**PHYSICS FOR HEALTH SCIENCE**

**Credits (Min/Max): 3/3**

This course is designed to provide a broad background in physics for those who will enter the allied health professions. Applications will be made to the biological and physiological sciences, as well as to the various types of equipment. Lecture and laboratory course.

PreRequisites: MATH1010 - COLLEGE ALGEBRA

**PHYS1010L**

**PHYSICS FOR HEALTH SCIENCE-LAB**

**Credits (Min/Max): 1/1**

Laboratory for PHYS1010 Physics for Health Science

**PHYS1032**  
**GENERAL PHYSICS I**  
**Credits (Min/Max): 3/3**

This is the first of a three-semester introduction to calculus-based physics stressing experimental and problem-solving techniques. Concepts covered are mechanics, kinematics, Newtons laws of motion, conservation laws, rotational motion, gravitation, oscillation, and wave/acoustics.

**PHYS1032L**  
**GENERAL PHYSICS I-LAB**  
**Credits (Min/Max): 1/1**

Laboratory for PHYS1032 General Physics I

**PHYS1033**  
**GENERAL PHYSICS II**  
**Credits (Min/Max): 3/3**

The second of a three-semester introduction to calculus-based physics. Concepts covered are thermal properties and electromagnetism: thermodynamics, electricity, magnetism, electromagnetic wave, geometrical optics, and physics optics.

PreRequisites: PHYS1032 - GENERAL PHYSICS I

**PHYS1033L**  
**GENERAL PHYSICS II-LAB**  
**Credits (Min/Max): 1/1**

Laboratory for PHYS1033 General Physics II

**PHYS2030**  
**GENERAL PHYSICS III**  
**Credits (Min/Max): 3/3**

The third of a three-semester introduction to calculus-based physics. This course is devoted to the study of the two great theories that underlie almost all of modern physics, quantum theory and relativity theory. There is an emphasis on quantum mechanical description of semiconductor physics, which forms our modern electronics age (computers and electronic communication devices in general). A series of laboratory projects enables the student to retrace experimentally the development of modern physics.

PreRequisites: PHYS1033 - GENERAL PHYSICS II

**PHYS2030L**  
**GENERAL PHYSICS III-LAB**  
**Credits (Min/Max): 1/1**

Laboratory for PHYS2030 General Physics III

PreRequisites: PHYS1033L - GENERAL PHYSICS II-LAB

**PHYS2080**  
**ANALOG ELECTRONICS**  
**Credits (Min/Max): 3/3**

An introductory course of electronics. Students will learn the fundamental principles of electronics circuits while engaging in various laboratory projects using electronic components such as passive devices and integrated circuit chips. Topics to be studied include basic circuit theory, diode applications, Bipolar and Field Effect transistors, operational amplifiers, and basic TTL gates. This course will provide students with both theoretical and practical knowledge necessary to start understanding of computers and data communication devices.

**PHYS2080L**  
**ANALOG ELECTRONICS-LAB**  
**Credits (Min/Max): 0/0**

Lab for PHYS2080 Analog Electronics

**PHYS3075**  
**COMPUTATIONAL PHYSICS**  
**Credits (Min/Max): 3/3**

This course will focus on analyzing problems of physics with numerical methods and simulation techniques. Various problems are selected from Classical Mechanics, Electromagnetism, Thermal/Statistical Physics, and Quantum Mechanics. It will provide students with additional computational skill and knowledge necessary for analyzing various models and simulations of physics and other disciplines.

**PHYS3080**  
**DIGITAL ELECTRONICS**  
**Credits (Min/Max): 3/3**

This is an intermediate digital electronics and focuses on the study of computer architecture, and digital signal processing technology. It will provide students with the working knowledge necessary for understanding in computer science and telecommunication technologies. Students will learn practical digital circuits while conducting practical laboratory projects. Typical digital integrated circuits and digital/analog interface chips will be used for designing and constructing a prototype computer, interfaces, and digital signal processing circuits.

**PHYS3080L**  
**DIGITAL ELECTRONICS-LAB**  
**Credits (Min/Max): 0/0**

Lab for PHYS3080 Digital Electronics

**PHYS3082**  
**ELECTRONICS COMMUNICATION**  
**Credits (Min/Max): 3/3**

This course will present the fundamental technology of wireless and cable telecommunications. Students will become familiar with modulation/demodulation and noise reduction for high-fidelity electronic and data communications. They will also learn advanced data communication technologies such as digital broadband technology. Transition from electronics (application of electrons) to photonics (application of lights and photons) is also presented. Hands-on laboratory projects will be conducted in connection with the basic hardware of telecommunication not covered in PHYS2080 Analog Electronics and PHYS 3080 Digital Electronics.

**PHYS3082L**  
**ELECTRONIC COMMUNICATION-LAB**  
**Credits (Min/Max): 0/0**

Lab for PHYS3082 Electronic Communication

**PHYS4075**  
**PHYSICS OF INFORMATION THEORY**  
**Credits (Min/Max): 3/3**

This course will offer fundamental concepts of physics that forms information and computation theories. The first part of this course is an overview of information theory. The concept of entropy and negative entropy in Thermodynamics and Information will be discussed. Then, noise in electric communication will be treated as a stochastic process. The second part of this course is an introduction to quantum computation and information. Mathematical background of quantum mechanics will be overviewed for the theoretical background of quantum computation/information. Experimental feasibility will be also discussed with recent development. It will provide students with fundamental knowledge of classical and quantum computation/information.

**PHYS4080**  
**INSTRUMENTAL PHYSICS**  
**Credits (Min/Max): 3/3**

In this course, students will learn how to design and construct test and measurement instruments. They will design, construct various hands-on apparatuses and conduct measurements with their own instruments in the laboratory session. Students will also learn basic knowledge of design and construction of computer-based data acquisition systems and virtual instruments, emphasizing the application of microelectronics for controlling processes and systems. The integration of microprocessors with sensors/actuators and the use of digital device interface are central to these applications. In addition, typical computer network application of laboratory will be overviewed.

**POLI1022**  
**AMERICAN GOVERNMENT**  
**Credits (Min/Max): 3/3**

This course introduces students to the major American political institutions, the way in which the houses of Congress function, and the Presidency while also analyzing civil liberties, constitutional rights, policy-making, social policy issues, the role of political parties, the electoral process, the political role of the media, and foreign policy debates.

**POLI2001**  
**GLOBAL POLITICS(INST2001)**  
**Credits (Min/Max): 3/3**

This is an introductory course in the field of international relations, providing an overview of major theories and concepts of international relations and an historical background for contemporary world politics. Major topics include the contemporary international system, economic development, foreign policy behavior, international conflicts and international institutions. Cross-listed with INST2001

**POLI2005**  
**CONSTITUTIONAL LAW(CRIM2005)**  
**Credits (Min/Max): 3/3**

This course will explore the difficulty in interpreting the meaning of constitutional language. The interpretive role of the U.S. Supreme Court will be studied through an examination of landmark constitutional decisions. The major schools of thought that guide interpretation will also be studied. Cross-listed with CRIM2005



**POLI2045****ISLAM IN THE WORLD (HIST/SOCL2045)****Credits (Min/Max): 3/3**

In this course, the basic beliefs of Islam are reviewed, along with a brief history of Islam's overall development and its impact on the world and on various civilizations in different global regions. Islam's internal sects are analyzed, and its political impact on current politics in the world is explored. The role of U.S. foreign policy in dealing with the recent rise of Islam is also analyzed. Cross-listed with HIST/SOCL2045

**POLI2075****PUBLIC POLICY****Credits (Min/Max): 3/3**

In this course we study basic concepts and practices of the public policy process, from policy formulation to decision-making and implementation of policies by the government. The United States federal government is the major focus of inquiry although other governments may be referenced. This course is especially appropriate for those interested in knowing how a policy is created and how to analyze government policies.

**POLI3002****HISTORY OF EUROPEAN DIPLOMACY (HIST3002)****Credits (Min/Max): 3/3**

The internationally accepted style of diplomacy had its origins in Italy in the late 1400's. Emphasis is placed on the mechanisms of diplomacy as well as its use by European powers: classical diplomacy in the 19th century and the impact of that system on other areas of the globe. The decline of European style diplomacy in the World War/Cold War era is described. Cross-listed with HIST3002

**POLI3011****RESEARCH METHODS****Credits (Min/Max): 3/3**

This course introduces the student to the design of explanatory models in political science and more commonly used quantitative and qualitative analytical techniques in doing political science research.

**POLI3015****HISTORY/POLITICAL THOUGHT (HIST3015)****Credits (Min/Max): 3/3**

In this course we inquire into the origins, evolution and development of political philosophies, focusing on the theories that have shaped Western political thought from ancient times to the present day. Key concepts in Western political thought such as liberty, justice, morality, political rights, and democracy are examined. Students will also be asked to create their own political theories. Students will learn the genesis of political thought over the past 2,000 years, how to critically assess these theories, and how to create their own theories. Cross-listed with HIST3015.

**POLI3019****HISTORY & POLITICS OF AFRICA****Credits (Min/Max): 3/3**

This course covers the key episodes in the history of Africa from pre-colonial times, through the colonial and post-colonial periods. We examine ancient kingdoms, stateless societies, inter-cultural exchanges, ethnicity, empire-creation and state-building. British, French, Belgian, Dutch and Portuguese colonial systems in Africa are then analyzed. We proceed to look at the anti-colonial independence movements, economic development in post-colonial Africa, post-colonial state-building and political changes in present-day Africa.

**POLI3021****COMPARATIVE GOVERNMENT(INST3021)****Credits (Min/Max): 3/3**

This course focuses on the government, policies and politics of different nation-states around the world, and investigates the political science approaches to studying government and politics in various areas of the world. The focus is not only on forms of governments, but also the major political and social factors that affect political change in different world areas, the relationship between states and societies, and the comparative study of democratic and non-democratic nations. Cross-listed with INST3021

**POLI3023****MODERN U.S. DIPLOMATIC HISTORY (HIST/INST3023)****Credits (Min/Max): 3/3**

This course presents a study of the major developments in American diplomatic history. Special emphasis is placed on the years from World War II until the present. Major international developments and their effects on American diplomacy are discussed along with the impact of various presidents and the influence of the United Nations. The interrelation between foreign policy and domestic opinion is also examined. Cross-listed with HIST/INST3023

**POLI3025****DEVELOPMENT:POLITICAL, SOCIAL & ECONOMIC ISSUES(INST3025)****Credits (Min/Max): 3/3**

This course presents a study of the political, social, and economic realities of Latin America, Asia, and Africa. Emphasis is placed on ecological, racial, ethnic, and population problems, as well as on the legacy of colonialism, developmentalism, and dependency. Human rights and the special problems of women will also be addressed. Cross-listed with INST3025

**POLI3032**

**COMPARATIVE PUBLIC POLICY**

**Credits (Min/Max): 3/3**

This course is an introduction to the formation and dissemination of public policy in various countries around the world. We examine the means by which political, economic, and social issues are addressed by governments. The impact of public policy decision-making is critically evaluated and compared among countries.

**POLI3033**

**AMERICAN FOREIGN POLICY (INST3033)**

**Credits (Min/Max): 3/3**

The reasons behind the foreign policy decisions of the U.S. government in recent decades are examined; different theories are explored for explaining shifts and continuities in foreign policy decision-making. Contemporary challenges to American foreign policy, from Iraq and Iran to Afghanistan, Syria and the Middle East are analyzed. Cross-listed with INST3033

**POLI3036**

**HIST AMER POL VALUES(HIST3036)**

**Credits (Min/Max): 3/3**

In this course we explore the central values, beliefs and ideas that have helped to both shape and reflect the changing history of the United States. Special attention is paid to how particularly important values and ideas reflected certain time periods in American history, and helped to make this country unique. America's values and beliefs evolved both from social changes and grassroots political movements as well as from its leaders and influential thinkers. Contemporary ideas and values in America are provided considerable attention. Cross-listed with HIST3036

**POLI3037**

**THE AMERICAN PRESIDENCY**

**Credits (Min/Max): 3/3**

In this course we compare and contrast different U.S. presidents through the history of the country, survey the strengths and weaknesses of different presidents, while analyzing the overall challenges to serving effectively as president. The role of the electoral college is examined with regard to the complexities of campaigning for and successfully competing in U.S. presidential elections, especially the upcoming election and the most recent election.

**POLI3039**

**POLITICS AND SOCIETY(SOCL3039)**

**Credits (Min/Max): 3/3**

The course is designed to familiarize the student with the social bases of political power. Politics is viewed as a process in relation to the social and economic structures, which influence its direction. A consideration of the effects which politics has on these structures is also offered. A detailed analysis of the primacy of politics in the 20th century is included. Cross-listed with SOCL3039

**POLI3040**

**ETHNIC CONFLICT(SOCL3040)**

**Credits (Min/Max): 3/3**

In this course we examine why ethnic groups sometimes get along very well, but other times engage in conflict. We query: What are the political and social origins of ethnic conflicts in various parts of the world? Do ethnic conflicts differ in different world regions? What national and international policies encourage ethnic conflict? How can we encourage ethnic groups to pursue peaceful accommodations? *Cross-listed with SOCL3040*

**POLI3041**

**TERRORISM IN THE MODERN AGE**

**Credits (Min/Max): 3/3**

This course explores the global political context which gives rise to terrorist groups and movements, while also differentiating between authentic terrorist movements and those which are radical but not terrorist. Emphasis is on the historical and contemporary evolution of terrorist movements, the reasons for their emergence, and the current status of present-day terrorist groups and movements.

**POLI3045**

**HISTORY & POLITICS OF MID EAST (HIST3045)**

**Credits (Min/Max): 3/3**

This course explores the peoples and history of the Middle East, from ancient times, including a procession of impressive empires, until their eventual domination by the Ottomans and finally, by British Empire. We investigate the accommodation of the British to Middle Eastern kingships and the impact of colonial state-building. We proceed to examine the establishment of the state of Israel and the evolution of Palestinian-Israeli relations over past half a century. Cross-listed with HIST3045

**POLI3051**  
**DEVELOPMENT IN SOUTHEAST ASIA (HIST/SOCL3051)**  
**Credits (Min/Max): 3/3**

This course looks at the history of social, political and economic development of Southeast Asia, excluding Indochina, and focusing primarily on Indonesia, Malaysia, and the Philippines. It will discuss the dependent nature of development of these countries and how such development affects the national historical experiences of these countries. Cross-listed with HIST/SOCL3051

**POLI3052**  
**EXPERIENCE OF MODERN WAR (HIST3052)**  
**Credits (Min/Max): 3/3**

In this course, the experience of modern war is analyzed as a contemporary political phenomenon with broad political implications for the understanding the relationship between national and international politics, on the one hand, and the actual experience of war, on the other. Contemporary and modern wars are studied from the perspective of the soldier in the field, as well as from the broader perspective of commander decision-making, generals' war strategies, and the global context of war-making. Also taken into account is the impact of war on the inhabitants of war-affected countries; on military veterans; and on the national political system of the countries involved in a war. *Cross-listed with HIST3052*

**POLI3082**  
**SOCIAL MOVEMENT & RESISTANCE (SOCL3082)**  
**Credits (Min/Max): 3/3**

This course examines the origin, growth, and dynamics of social movements as forms of social protest and resistance against state and global injustices. Discussions include case studies of various social and political groups, non-government organizations, and liberation and revolutionary movements in the U.S. and throughout the world. Cross-listed with SOCL3082

**POLI4000C**  
**HISTORY & POLITICS OF ITALY**  
**Credits (Min/Max): 3/3**

This course explores various facets of the general history of Italy from ancient times, through to the Roman Empire, and then on into the modern construction of Italy as a nation-state. The course also delves into recent Italian government and politics. Students will have the opportunity to explore specific research topics in Italian history or politics, such as art, architecture, culture, social life, culinary experiences, personal family histories, comparative urban design, military history, Italian prime ministers, Italian elections, and other topics.

**POLI4051**  
**POLITICAL SCIENCE-INTERNSHIP I**  
**Credits (Min/Max): 3/3**

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institute to which the student is assigned.

**POLI4055**  
**SENIOR SEMINAR-POLITICAL SCIENCE**  
**Credits (Min/Max): 3/3**

A research methodology course that acquaints students with political research methods. Students will synthesize their knowledge of political science through the discussion of the research process and the writing and presentation of a research paper.

**POLI4057**  
**POLITICAL SCIENCE-INDEPENDENT STUDY**  
**Credits (Min/Max): 1/3**

Individual study course that is supervised by a full-time faculty member.

**PSED1003**  
**CONDITIONING I**  
**Credits (Min/Max): 2/2**

This course is designed to enable students individually to assess personal strengths and weaknesses and to develop an effective individualized physical program to alleviate weaknesses and to maintain strengths.

**PSED1004**  
**CONDITIONING II**  
**Credits (Min/Max): 2/2**

This course focuses on specific areas of physical activity, exercise, health, physical fitness, skill learning and body mechanics. Both men and women students receive instruction on theory and methods of physical activity and exercise in order to develop personal physical exercise programs.

**PSED1005**  
**INTRO TO SPORTS: WEIGHT TRAINING**  
**Credits (Min/Max): 2/2**

To develop a general understanding of overall strength training, techniques, and theories.

**PSED1005E**  
**TENNIS**  
**Credits (Min/Max): 1/1**

This course introduces the students to the basic fundamentals of the sport of tennis. This course aims to improve basic tennis skills to the student through instruction, demonstration, and execution.

**PSED1005K**  
**AEROBIC DANCE**  
**Credits (Min/Max): 1/1**

To develop a general understanding of overall physical conditioning and the means to which this state can be achieved. To show students that working out is fun and that Fitness is for LIFE.

**PSED1005M**  
**SOFTBALL**  
**Credits (Min/Max): 1/1**

This course is designed to introduce the student to the basic skills of softball.

**PSED1005S**  
**YOGA**  
**Credits (Min/Max): 2/2**

Yoga is the union occurring between the mind, body and spirit. Yoga is about creating balance in the body through developing both strength and flexibility. This is done through the performance of poses or postures, each of which has specific physical benefits. The poses can be done quickly in succession, creating heat in the body through movement or more slowly to increase stamina and perfect the alignment of the pose.

**PSED1007**  
**ACADEMIC ORIENTATION FOR VARSITY ATHLETES**  
**Credits (Min/Max): 3/3**

This course will introduce students to the rigors of the varsity sport experience. It provides the information that the student needs to understand, organize, plan and thrive in the competitive environment of a collegiate sport program while integrating themselves into the university community. The corner stone of this course is the varsity sport experience itself. Under the tutelage of our coaches, these student-athletes will learn how to prepare for and engage in physical and psychological contests of the highest order. In addition to engagement with the finest physiological training students are taught to work collaboratively in small and large groups to solve complex movement problems. Critical thinking is stressed as students negotiate the complex real world problem of being a student athlete in a collegiate athletic program. Social behavior, community, and scholarly conduct are continually addressed as the student-athletes attempt to integrate themselves into the college and local community.

**PSED1008**  
**PILATES**  
**Credits (Min/Max): 1/1**

Pilates emphasizes the balanced development of the body through core strength, flexibility, and awareness in order to support efficient, graceful movement. It is about lengthening and strengthening your muscles, leading to increased strength and improved flexibility. Each exercise movement flows smoothly into the next, encouraging the body to learn and remember new ways of movement and being, a mind-body connection.

**PSED1009**  
**MEDITATION**  
**Credits (Min/Max): 1/1**

Meditation uses breath work, concentration, and positive affirmations to elicit the relaxation response. Students will practice various meditative techniques and learn the many benefits and positive outcomes of meditation as a practice.

**PSED1011**  
**TURBO KICK**  
**Credits (Min/Max): 1/1**

Turbo Kick is a combination of intense kickboxing moves and fun dancing. These two types of cardiovascular exercise are choreographed to high energy and motivating music. The blending of intense cardio, muscle toning, as well as cool downs come together for the ultimate workout. Turbo Kick requires no previous experience.

**PSED1014****INTRO TO FITNESS/SPORTS: YOGA****Credits (Min/Max): 1/1**

Promote fitness and healthy living by introducing students to new sports and fitness activities. The actual sport or fitness type will change regularly. Yoga is the union occurring between the mind, body and spirit. Yoga is about creating balance in the body through developing both strength and flexibility. This is done through the performance of poses or postures, each of which has specific physical benefits. The poses can be done quickly in succession, creating heat in the body through movement or more slowly to increase stamina and perfect the alignment of the pose.

**PSED4057****PHYSICAL EDUCATION-INDEPENDENT STUDY****Credits (Min/Max): 1/3**

Independent study is an accelerated program for superior students in the division of natural and mathematical sciences. It is intended to allow a student to pursue an independent study in conjunction with a divisional faculty member. To be eligible for independent study the student must comply with all appropriate college policies.

**PSYC1021****INTRO TO PSYCHOLOGY****Credits (Min/Max): 3/3**

This survey course introduces all the major areas of psychology, from its origins in the fusing of medicine and biology with philosophical questions about the nature of the human mind through the emphasis on psychology as the science of behavior. Included are such diverse topics as: mental health, stress and coping; consciousness, sleep and dreams; psychopathology and its various treatments, social psychology; emotion and motivation; memory; intelligence; language; hypnosis; types of learning; sensation and perception; and the relationship of the nervous system to thoughts, feelings and behaviors.

**PSYC1021H****INTRO TO PSYCHOLOGY-HONORS****Credits (Min/Max): 3/3**

This survey course introduces all the major areas of psychology, from its origins in the fusing of medicine and biology with philosophical questions about the nature of the human mind through the emphasis on psychology as the science of behavior and mental processes. Included are such diverse topics as: health, stress, and coping; consciousness, sleep and dreams; effects of psychoactive drugs on behavior and health; psychopathology; social psychology; hypnosis; types of learning and behavior management, information processing approaches including memory, encoding and retrieval; and the relationship of the nervous system to thought, feelings, and behaviors. Multiple activities and research projects allow students to experience psychology "up close and personal".

**PSYC2015****HEALTH PSYCHOLOGY****Credits (Min/Max): 3/3**

This course explores psychological applications involved in health and risk behaviors. The emphasis is placed on enhancement of health and the understanding and control of psychological processes that undermine health. Topics include examination of the psychology of stress, pain, illness and treatment, and addictive lifestyle behaviors of eating, drinking, and smoking.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC2018****HUMAN SEXUALITY****Credits (Min/Max): 3/3**

This course will explore the psychological influences on human sexuality including the psychodynamic, behaviorist, and social cognitive approaches. Developmental changes, adult sexuality, and contemporary issues will also be examined. The student will be exposed to research methodology involved in studying sexual behavior and attitudes.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC2022****CHILD DEVELOPMENT****Credits (Min/Max): 3/3**

The psychological principles of human growth and development with emphasis on the relative roles of genetic and environmental factors are the foci of the course. The life span segment covered in this course is infancy to adolescence. Children's physical, cognitive, social and personality development are examined.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC2033****THE EXCEPTIONAL CHILD****Credits (Min/Max): 3/3**

A survey of the psychological development of youngsters with physical, social, cognitive and emotional deviations. Emphasis is placed on procedures leading to social and psychological adjustments.

**PSYC2036**  
**PSYCHOLOGY & HUMOR**  
**Credits (Min/Max): 3/3**

Psychology and Humor introduces students to the content area and measurement and research issues on the topic of humor. Thematic use of material from the study of humor is used to illustrate many of the basic discipline areas of psychology, including understanding of theory, research methods, testing, personality, cognition, and development.

**PSYC2040**  
**ADOLESCENT PSYCHOLOGY**  
**Credits (Min/Max): 3/3**

Adolescence is studied from a developmental perspective. The course content begins with historical, cultural, and theoretical perspectives of adolescence and proceeds to cover adolescent development: physical, social, emotional, and personality. Family and peer relationships and the impact of schooling will also be studied. Identity formation and moral development will be discussed, as will psychological problems and disturbances relevant to the adolescent years.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC2061**  
**EDUCATIONAL PSYCHOLOGY**  
**Credits (Min/Max): 3/3**

A study of psychology in education, individual differences, learning and teaching processes, evaluations of learning outcomes and educational and personal development of learners.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC2152**  
**APPLIED LEARNING**  
**Credits (Min/Max): 3/3**

This course will address basic principles of learning and conditioning as well as their usefulness in behavior modification. Applications to normal and abnormal behavior in the home, school, work and other environments will be emphasized.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC3011**  
**RESEARCH METHODS IN PSYCHOLOGY**  
**Credits (Min/Max): 3/3**

This course examines the major experimental designs and methods of psychology. The student will be exposed to the nature of psychology as a science, evaluation of research design and conclusions, conducting of research, preparation of research papers and ethics in research in psychology. Required for Psychology majors and minors and Child and Family Studies majors.

PreRequisites: CRIM2012 - ANALYSIS OF CRIM JUSTICE DATA

**PSYC3020**  
**DEATH & DYING(SOCL3020)**  
**Credits (Min/Max): 3/3**

This course is topical overview of some of the diverse areas of inquiry grouped under the general heading death and dying. The basic purpose of this course is to help students understand grief, loss, dying, and death-both as an objective fact and as it relates to their own personal experiences-and to apply this understanding their common experiences. The social, cultural, spiritual, emotional, and intellectual dimensions of death and dying will be examined from an interdisciplinary, but mostly social psychological and sociological perspective with the goal of enhancing the meaning of life and living. Cross-listed with SOCL3020

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC3023**  
**ABNORMAL PSYCHOLOGY**  
**Credits (Min/Max): 3/3**

This course begins with definitions of abnormal behavior and proceeds to a review of possible causes. Most of the course focuses upon various DSM-IV classifications of abnormality, such as: mood disorders, anxiety disorders; acute and posttraumatic stress disorders; dissociate disorders; somatoform disorders; stress and physical health; personality disorders; eating disorders; substance use disorders; sexual and gender-identity disorders; and the schizophrenias.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC3025**  
**INDUSTRIAL & ORGANIZATIONAL PSYC**  
**Credits (Min/Max): 3/3**

This course studies the organizational structure and processes in a variety of areas, including personnel, recruitment, selection, placement and counseling; supervision and leadership; motivation and moral; the conditions of work; training, organizational climate; consumer psychology; multinational corporations and diversity in organizations.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

### **PSYC3027**

#### **LEARNING & COGNITION**

**Credits (Min/Max): 3/3**

This course examines the principles and mechanism of learning, including those involved in conditioning and theory, research, and controversies in the study of cognition. The course also contains a laboratory experience emphasizing the experimental analysis of major learning paradigms and the conducting and reporting of laboratory studies.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

### **PSYC3028**

#### **THEORIES OF PERSONALITY**

**Credits (Min/Max): 3/3**

This course provides coverage of a broad range of personality theories in terms of each theory's core concepts, developmental considerations and statements about the periphery of human personality. Examples of the theories covered include: Sigmund Freud and Psychoanalysis; C. G. Jung and Analytic Psychology; Alfred Adler and Individual Psychology; Anna Freud and the Post-Freudians; Karen Horney and Humanistic Psychoanalysis; Erik Erikson and the life cycle; Wilhelm Reich and Somatic Psychology; William James and the Psychology of Consciousness; B. F. Skinner and Radical Behaviorism; George Kelly and Cognitive Psychology; Carl Rogers and the Person-Centered Perspective; Abraham Maslow and Transpersonal Psychology; Yoga and the Hindu Tradition; Zen and the Buddhist Tradition; Sufism and the Islamic Tradition.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

### **PSYC3029**

#### **SOCIAL PSYCHOLOGY(SOCL/CMET3029)**

**Credits (Min/Max): 3/3**

Social psychology is the study of human behavior as it is shaped by the psychosocial environment. Topics include person perception, small group interaction, theories and methods of attitude change, interpersonal attraction, conformity, aggression, prejudice, persuasion, altruism and prosocial behavior. Cross-listed with SOCL/CMET3029

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

### **PSYC3030**

#### **INTERPERSONAL & GROUP DYNAMICS**

**Credits (Min/Max): 3/3**

This course reviews current psychological theory and research on small groups and interpersonal relations with an examination of interaction between individual behavior and group phenomena. The course provides a significant experience in the dynamics of a small group.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

### **PSYC3031**

#### **TESTS & MEASUREMENTS**

**Credits (Min/Max): 3/3**

A study of the objectives, principles and procedures of various types of measurement including educational and psychological instruments. Test construction, reliability, validity and basic statistical concepts for test use are presented.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

### **PSYC3032**

#### **PSYCH OF ADULTHOOD & AGING**

**Credits (Min/Max): 3/3**

Focusing upon middle and late adulthood, this course explores changes in perception, cognition (including memory and creativity), personality, and psychopathology in aging individuals. Topics include coping with the psychological changes of aging, counseling the elderly, the impact of psychological changes on social functioning.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

### **PSYC3035**

#### **PHYSIOLOGICAL PSYCHOLOGY**

**Credits (Min/Max): 3/3**

An examination of the physiological and biological constitution of the human species with emphasis on the physiological and biological correlates of human behavior. An examination of the techniques used by physiologists to assess those correlates is also included.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC3040**  
**COUNSELING THEORIES & METHODS I**  
**Credits (Min/Max): 3/3**

This is the first course in a two-course counseling sequence. Taken together, these two courses are designed to: a) familiarize students with the basic concepts in the field of counseling; b) introduce students to the major theoretical approaches to counseling and psychotherapy; and c) enable students to develop a level of counseling skill that will enable them to function effectively in a supervised setting. This first semester is more than 50% abstract (lecture/discussion) learning.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC3041**  
**COUNSELING THEORIES & METHODS II**  
**Credits (Min/Max): 3/3**

This is the second course in a two-course counseling sequence. Taken together, these two courses are designed to: a) familiarize students with the basic concepts in the field of counseling; b) introduce students to the major theoretical approaches to counseling and psychotherapy; and c) enable students to develop a level of counseling skill that will enable them to function effectively in a supervised setting. This second semester is more than 50% experiential (role-playing; classroom exercise in the use of specific counseling techniques) learning.

PreRequisites: PSYC3040 - COUNSELING THEORIES & METHODS I

**PSYC3045**  
**EVOLUTIONARY PSYCHOLOGY**  
**Credits (Min/Max): 3/3**

An in-depth exploration of the controversial theoretical position that human psychology has evolved following Darwinian principles. This perspective provides a provocative and compelling explanation for the human animal's cross-cultural similarities. This course emphasizes cognition and social behavior vis a vis natural selection and evolutionary fitness.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC3063**  
**CRIMINAL BEHAVIOR: LAW & PSYCHOLOGY (CRIM3063)**  
**Credits (Min/Max): 3/3**

This course, through an integration of psychology, criminology, political science and law, examines the role of the outlaw in both our community and global society. Elements of the course include psychological explanations of individual personality development, choice, both rational and thrill-motivated theories of criminality, examination of the role that powerful outlaws have played in our communities, and the rise of deviant individuals who have gained enormous power by capitalizing on the forces of globalization. The course also intertwines the legal means that society has employed to restrict the power of the outlaw in our society and the capacity of individuals to overcome attempts at domination.

Cross-listed with CRIM3063

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

**PSYC3065**  
**FORENSIC PSYCHOLOGY**  
**Credits (Min/Max): 3/3**

The course provides the student with a general introduction to the practice of forensic psychotherapy and forensic psychology. Forensic psychotherapy addresses therapeutic work with criminally inclined individuals whose behavior or level of psychological functioning is in some way related to their criminal offense. Forensic psychology addresses ways in which experts in psychological assessment and diagnosis contribute to the legal system.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC3070**  
**CRITICAL SKILLS FOR PSYCHOLOGY STUDENTS**  
**Credits (Min/Max): 1/1**

This one credit course addresses several skill areas of importance to upper level students: their required capstone classes (finding references, writing with APA, reading primary research); career planning (job searches, graduate school planning), advanced study/reading skills with emphasis on primary research.

**PSYC3150**  
**COGNITIVE PSYCHOLOGY**  
**Credits (Min/Max): 3/3**

Cognitive Psychology explores the interdependent processes that occur in everyday mental activity. Topics addressed include perception, attention, memory, problem-solving, and others. Students will discover the world of events that occur as they ask, "What was I thinking?!"

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC4050**  
**SPECIAL TOPICS IN ADVANCED PSYCHOLOGY:**  
**Credits (Min/Max): 3/3**



A collection of courses covering a broad range of topics in advanced psychology, offered according to student need and interest. The precise title is announced during registration period for any given term. Counseling Survivors of Trauma: This course explores the nature & experience of trauma. Multiple theories are explored regarding the effects of traumatic impact on the individual psyche. Although the course emphasized the issues of adult survivors of early childhood trauma, especially sexual abuse & other maltreatment, issues relevant to other post traumatic stress related disorders with adults & children are included. The course is designed to provide students with an opportunity to begin to understand trauma as a construct, and work to understand the implications of trauma on personality development.

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

**PSYC4051**  
**PSYCHOLOGY-INTERNSHIP I**

**Credits (Min/Max): 1/6**

An application of behavioral, developmental, group dynamics, and counseling principles through actual work experience. Internship may be repeated. Further information is available from instructor.

**PSYC4052**  
**PSYCHOLOGY-INTERNSHIP II**

**Credits (Min/Max): 1/3**

An application of behavioral, developmental, group dynamics, and counseling principles through actual work experience. Internship may be repeated. Further information is available from instructor.

**PSYC4055**  
**SENIOR SEMINAR IN PSYCHOLOGY**

**Credits (Min/Max): 3/3**

This is the capstone course that is required of all psychology majors. It is designed to assist students to complete their undergraduate study of psychology through independent reading and library and database research, writing of an integrated literature review, and class discussion of these seminar papers which are presented orally by the students.

PreRequisites: PSYC3011 - RESEARCH METHODS IN PSYCHOLOGY

**PSYC4056**  
**DIRECTED RESEARCH**

**Credits (Min/Max): 2/4**

Individual research supervised by a full-time faculty member.

**PSYC4057**  
**PSYCHOLOGY-INDEPENDENT STUDY**

**Credits (Min/Max): 1/6**

This course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area.

**REAL1095**  
**FUND OF REAL ESTATE & PRACTICE**

**Credits (Min/Max): 4/4**

An introduction to the field of real estate sales and services. Explored, in this regard, will be the concepts of: public policies, legal implications, market dynamics, services involved and financial applications. Residential, commercial and industrial situations will be covered.

**REAL3000**  
**REAL ESTATE LAW & ETHICS**

**Credits (Min/Max): 3/3**

This course covers the essentials of law as it pertains to real estate activities. Presented are the unique legal aspects of real estate transactions ranging from landlord-tenant relationships to the regulations of land development. Addressed also are the ethical issues of fraud and deceit and the legislation pertinent to real estate operations. A case study approach is utilized.

**REAL3001**  
**REAL ESTATE APPRAISAL**

**Credits (Min/Max): 3/3**

An overview of the appraisal profession now regulated apart from the real estate business. Appraisals are used for pricing, financing, protecting or leasing property. Concepts discussed include: competitive market analysis, market value versus market price, market value versus cost, various approaches to value and the appraisal process.

**REAL3002**  
**REAL ESTATE FINANCE**

**Credits (Min/Max): 3/3**

This course provides the basic concepts of real estate financing. Addressed is the nature and cycle of this kind of financing, the sources of funds, the types of legal and financial instruments used, the variety of loan arrangements utilized, the role of governmental agencies and the importance of the secondary mortgage markets. A case/workbook approach is used to facilitate the learning process.

**REAL4051**

**REAL ESTATE-INTERNSHIP I**

**Credits (Min/Max): 1/6**

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institution to which the student is assigned.

**REAL4057**

**REAL ESTATE-INDEPENDENT STUDY**

**Credits (Min/Max): 1/3**

Independent study is intended to allow a student to pursue studies in advanced or special topics.

**RELS1001**

**OLD TESTAMENT(SLRS1006)**

**Credits (Min/Max): 3/3**

A general overview of the Old Testament in light of present historical, literary, theological, and archeological research. *Cross listed with SLRS1006*

**RELS1002**

**NEW TESTAMENT(SLRS1011)**

**Credits (Min/Max): 3/3**

A general introduction to the New Testament and overview of the historical, religious and cultural milieu in which these Scriptures originated. *Cross-listed with SLRS1011*

**RELS1003**

**WORLD RELIGIONS(SLRS1003)**

**Credits (Min/Max): 3/3**

This course examines the historical development together with the religious beliefs and practices of the major religions of the world including Hinduism, Buddhism, Jainism Sikhism, Confucianism, Taoism, Shinto, Judaism, Christianity, Islam and Zoroastrianism. The teachings of each religion regarding the Absolute, the world, the nature of humans, the problem facing humans, the solution of the problem for humans, Community and Ethics, Rituals and Symbols, and what happens after death will be studied. The course also includes an examination of the beginnings of religion in human history as well as the characteristics of tribal and national religions. Cross-listed with SLRS1003

**RELS1011**

**CHURCH HISTORY**

**Credits (Min/Max): 3/3**

An examination of the unfolding and growth of Christian thought in the Western world and analysis of the notion of theological development.

**RELS1012**

**CHRISTIAN RITUAL & WORSHIP**

**Credits (Min/Max): 3/3**

A study of the meaning of ritual and worship in Christianity, major steps in the development of the Eucharist (especially in the Western traditions), the impact of the Reformation on the meaning and form of worship and a brief discussion of common symbols.

**RELS1015**

**MORAL THEOLOGY**

**Credits (Min/Max): 3/3**

A survey of the principles of moral conduct based upon the writings of the New Testament and the teaching of the Catholic Church and of Contemporary Catholic moral theologians, topics include sin, human action, conscience and decision making.

**RELS1016**

**SACRAMENTAL THEOLOGY**

**Credits (Min/Max): 3/3**

An examination of the foundational elements of the Church's sacramental life from the perspectives of theology, history and anthropology beginning with a discussion of the lived experience of sacraments and developing various models which have guided sacramental praxis, with emphasis on the contemporary influences of symbol and ritual studies.

**RELS1018**

**SURVEY OF CATHOLIC DOCTRINE**

**Credits (Min/Max): 3/3**

This course offers a general overview of the nature of Revelation, Faith, and the sources of Revelation, together with an overview of the more important doctrinal and moral teachings of the Catholic Church.

**RELS2014**  
**CHRISTOLOGY(SLRS1005)**  
**Credits (Min/Max): 3/3**

A systematic study of the beliefs of the church in the person of Jesus as reflected in Scripture and the early church councils and a survey of contemporary Christological teaching. Cross-listed with SLRS1005

**RELS2020**  
**WOMEN & RELIGION(SLRS1014)**  
**Credits (Min/Max): 3/3**

A survey of woman's place in society, past and present, as it has been and is affected by religious teachings, laws and customs and examination of the attitudes toward women in the Hebrew and Christian Scriptures, in the writing of the early church fathers, the Protestant Reformers, and in the current religious structures of Catholics, Protestants, and Jews. Cross-listed with SLRS1014

**RELS2033**  
**MYSTERY OF GOD**  
**Credits (Min/Max): 3/3**

Can the existence of God be demonstrated? An examination is made of basic arguments for God's existence: the ontological, the cosmological, the teleological, the moral and the argument from religious experience.

**RELS2034**  
**CHURCH:INSTITUTION & COMMUNITY**  
**Credits (Min/Max): 3/3**

The Church is both an institution and a community of people united in their belief that Jesus is the Savior of the World. This course examines the Church from a scriptural, historical and theological perspective.

**RELS2050**  
**SPECIAL TOPICS IN RELIGIOUS STUDIES**  
**Credits (Min/Max): 3/3**

A collection of courses covering a broad range of topics in religious studies, offered according to student need and interest.

**RELS3031**  
**RELIGION & SOCIETY**  
**Credits (Min/Max): 3/3**

An analytical presentation of religion as a social institution emphasizing the function of religion in society and its relationship to the conflict and change that characterize modern American life.

**RELS3037**  
**RELIGIOUS INFL ON US DVMT (HIST3037)**  
**Credits (Min/Max): 3/3**

An examination and interpretation of the religious forces that shaped American social structures, moves, law and popular opinion from the time of the first Spanish missionaries to the end of the 20th century with emphasis on religious liberty in American ideal and in religious pluralism. Cross-listed with HIST3037

**RELS3040**  
**VARIETIES OF EARLY CHRISTIANITY (HIST3040)**  
**Credits (Min/Max): 3/3**

This course treats Christianity from its origins through the medieval period. Special attention is given to internal issues and external forces, which caused conflict, adjustment, development, and finally varieties within the Christian world. For instance, it explores how dissident movements, the conversion of Constantine, the Germanic invasions, and the rise of Islam, feudalism, and papal power affected Christianity. The course also attempts to analyze how tensions between the institutional church and popular religious movements influenced society. Cross-listed with HIST3040

**RELS3045**  
**SPECIAL TOPICS IN SCRIPTURE**  
**Credits (Min/Max): 3/3**

After the person of Jesus, St. Paul is, perhaps, the most important person in the development of Christianity. At the same time, he is the most controversial figure. Many people view Paul as the source of all that is wrong with Christianity: sexism, authoritarianism, anti-Semitism, and polarization. As we join the universal Church in celebrating a special Jubilee Year in honor of the Apostle Paul, come join us for research, study, and reflection on this ambiguous man and his role in shaping Christianity.

**RELS4051**  
**RELIGIOUS STUDIES-INTERNSHIP I**  
**Credits (Min/Max): 1/3**

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institution to which the student is assigned.

**RELS4052**  
**RELIGIOUS STUDIES-INTERNSHIP II**  
**Credits (Min/Max): 1/3**

A field experience in selected professional environments. The student is given the opportunity to integrate theoretical knowledge with practical application under the guidance of professionals at the particular institution to which the student is assigned.

**RELS4055**  
**SENIOR SEMINAR IN REGIOUS STUDY**  
**Credits (Min/Max): 3/3**

This seminar consists of research into two or three themes in religious studies, selected and mutually agreed upon by the director of the seminar and the students registered for it. The research is progressive in depth leading to a final conclusion, presentation or paper by the members of the seminar.

**RELS4056**  
**DIRECTED RESEARCH-RELIGIOUS STUDIES**  
**Credits (Min/Max): 2/6**

Individual research in religious studies supervised by a faculty member. The student defines a problem, constructs and carries out a research program and reports on the findings of the research in a critical and analytical paper.

**RELS4057**  
**RELIGIOUS STUDIES-INDEPENDENT STUDY**  
**Credits (Min/Max): 1/3**

The independent study is intended to give an opportunity to students with superior ability to pursue an area of study in religious studies that is very specific in focus and/or not covered in existing offerings.

**SASU3001**  
**MEXICO:STUDY ABROAD/STUDY USA**  
**Credits (Min/Max): 1/1**

The La Roche Experience aims to provide students with the opportunity to experience and share the spirit, mission, and rich heritage of the Sisters of Divine Providence. The congregation of Divine Providence, founded in 1851, is an international community of vowed women and associates who seek to make Gods Providence visible by responding to the needs of the time and co-creating a world of compassion, justice and peace. Building on the service learning opportunities, simulation exercises, and opportunities for theological and spiritual experience of LRCX1001, the learning objective of LRCX1002 is to allow students to continue to build a common pool of metaphors through their participation in reading and discussing common texts and reflecting upon media experiences with particular emphasis to economic justice and environmental sustainability. [Study Abroad + Study U.S.A. Website](#)

**SASU3002**  
**NAVAJO NATION:STUDY ABROAD/ STUDY USA**  
**Credits (Min/Max): 1/1**

Perhaps the most significant issue confronting Native American peoples today is that of land use. Having lost the vast majority of their ancestral lands through treaty, conquest, and forced removal, Native tribal nations subsist largely on submarginal reservation lands that are beset by an array of problems: inadequate resources, air and water pollution, assaults on sacred sites, conflicts with local, state, and federal governments and with surrounding non-Native populations, and so on. At the same time, the value many of these lands possess for coal, uranium, and other mineral and energy interests produces both positives (income and employment) and negatives (health and other risks) for the affected tribes. Finally, overarching these material issues are ethical conflicts within Native communities and between Native and non-Native communities concerning the proper spiritual relation to and use of the land. In this course, we will explore the various issues related to contemporary Native American land use and land ethics through travel to the Navajo Nation reservation in Arizona and New Mexico, through study of print materials and conversation with Native peoples, and through community service projects on-site. This Study USA course thus provides students with insight and experience concerning an important contemporary topic, while engaging issues of diversity and discrimination, regional conflict, and economic (and particularly environmental) justice. As such, it fulfills the 1-credit LRCX1002, LRCX2001, or LRCX2002 requirement of the La Roche Experience. [Study Abroad + Study U.S.A. Website](#)

**SASU3003**  
**ITALIAN & GREEK CIVILATIONS: STUDY ABROAD/STUDY USA**  
**Credits (Min/Max): 1/1**

This course presents the legacies of the classical Italian and Greek civilizations, which served as the foundation of Western civilization. Students will be introduced to the history, language, music, architecture and art of these cultures in order to foster an appreciation for the Classical world. Participants will have the opportunity to experience and compare the cultural diversity of these countries and explore some of the most famous historical sites in the world. [Study Abroad + Study U.S.A. Website](#)

**SASU3004****GALAPAGOS ISLAND COMMUNITIES: STUDY ABROAD/STUDY USA****Credits (Min/Max): 3/3**

Communities are not just about people. A biological community refers to all populations of all species occupying a specified area. This course will examine the communities (human and non-human) of one of the most unique ecosystems on Earth: the Galapagos Islands. Participants will be able to observe, first hand, the diversity of wildlife and environmental conditions that gave rise to Darwin's theory of evolution by natural selection. The course will promote, through experiential learning, an understanding of the impact of human activity on the rest of the natural world and the interdependence among all living things. [Study Abroad + Study U.S.A. Website](#)

**SASU3005****INTERNATIONAL ARCHITECTURE & DESIGN: STUDY ABROAD/STUDY USA****Credits (Min/Max): 3/3**

An overview of the architecture, design, and culture of the foreign countries to be visited. This course is offered in conjunction with a Study Abroad/USA trip. The trip will take place during the May-mester, following the completion of the course. All students must be enrolled in the course to be eligible for the trip. The country/countries of interest will be determined for each given year.

**SASU3010****FRENCH CULTURE: STUDY ABROAD/ STUDY USA****Credits (Min/Max): 1/1**

This course introduces students to the unique character of France. The course will familiarize students with French culture; history, language, cuisine, architecture, and art. This course provides a direct experience of French culture and the unique opportunity to explore a host of French cultural and historical sites. Students will be able to test their values and perceptions as they compare the French culture to the American.

**SASU3012****GUATEMALA: STUDY ABROAD/STUDY USA****Credits (Min/Max): 1/1**

The La Roche Experience aims to provide students with the opportunity to experience and share the spirit, mission, and rich heritage of the Sisters of Divine Providence. The congregation of Divine Providence, founded in 1851, is an international community of vowed women and associates who seek to make God's Providence visible by responding to the needs of the time and co-creating a world of compassion, justice and peace. Building on the service learning opportunities, simulation exercises, and opportunities for theological and spiritual experience of LRCX 1001, the learning objective of LRCX 1002/2001/2002 is to allow students to continue to build a common pool of metaphors through their participation in reading and discussing common texts and reflecting upon real experiences with particular emphasis to Diversity/Discrimination, a Region of Conflict or Economic Justice

**SASU3013****ISLAM IN THE WORLD: STUDY ABROAD/STUDY USA****Credits (Min/Max): 1/1**

This course takes students to Istanbul, Turkey to experience the city's rich history, especially as a cultural meeting point between east and west. The city's glorious past, first under the Byzantine Empire, and later as the seat of the great Ottoman Empire, would expose students to the conflation of European and Islamic civilizational influences in a modern cosmopolitan center.

**SLAE1001****ART IN EVERYDAY LIFE****Credits (Min/Max): 3/3**

This Select Aesthetics course provides non-GD/ID majors with an opportunity to explore visual art as expressed in forms that impact our daily lives such as signage and graphics, product design, advertising imagery, mass media and publications, decoration, and fashion. Emphasis will be placed on the appreciation of aesthetic elements in functional form, design principles, motivational themes underlying visual communication, and cultural identities as manifested in visual art. The course will enable students to understand that, rather than being an isolated category of objects in a museum, art exists as a meaningful reality in what we read, see, and use.

**SLAE1002****INTRO TO ART****Credits (Min/Max): 3/3**

This course consists of a series of directed studio art experiences in basic and painting techniques, specifically designed for the non-art/design major.

**SLAE1003****DIGITAL FINE ARTS(GCDN2005)****Credits (Min/Max): 3/3**

This course is intended to provide an opportunity to explore Mac computer art. The students will experience the computer studio process of creating art in relevant software, using a digital camera to manipulate images and final image animation. The effect of styles, techniques and art movements on computer images will be explored. Attention will be given to archival inks and paper. Lecture and video will provide an introduction to the new and brief history of electronic images. Cross-Listed with GCDN2005

**SLAE1004**  
**INTRO TO DANCE LITERACY**  
**Credits (Min/Max): 3/3**

Dance is one of the world's oldest art forms, and one of the most popular today. Dance is everywhere around the globe: in the barrios, on television and youtube; in ballet classes, bars, kindergartens, mountain villages, house parties and sometimes in the streets. this course introduces students to a coherent way of seeing, talking and writing about, creating and performing a wide variety of dance and movement customs and styles. We will watch, read about, and do dance. Through dance this course introduces students to aesthetics, how people respond to art. We will learn a strategy to find commonalities in various dance traditions. The course is intended to be both fun and informative. No dance training/experience needed.

**SLAE1006**  
**THE AESTHETICS OF COLOR**  
**Credits (Min/Max): 3/3**

As an element of design, color defines the world around us. We react to it both physically and emotionally throughout our lives. This course for non-design majors will provide students with a broad understanding of color, encourage color awareness, and provide a basis for the creative and confident use of color.

**SLAE1007**  
**MUSIC APPRECIATION I(PART1001)**  
**Credits (Min/Max): 3/3**

An overview of musical eras from the Middle Ages through the 20th Century (Bach, Beethoven and the boys). Various listening activities are geared for the non-musician. Cross-listed with PART1001

**SLAE1008**  
**WOMEN'S 4 PART A CAPPELLA**  
**Credits (Min/Max): 3/3**

This course is designed specifically for female students who are interested in receiving formal lessons and hands-on instruction in signing a capella barbershop harmony with an established, award-winning barbershop chorus, Pittsburgh's Greater Harmony Chorus. This course is located off-campus.

**SLAE1009**  
**MUSIC APPRECIATION II(PART1002)**  
**Credits (Min/Max): 3/3**

An introduction to jazz for the non-musician. Eras covered include the roots of jazz, blues, ragtime, swing, bop, cool, jazz rock, jazz fusion and current trends. Jazz artists ranging from Louis Armstrong and Ella Fitzgerald to Harry Connick, Jr. and Diana Krall. Cross-listed with PART1002

**SLAE1010**  
**CREATIVE DRAMATICS(SPCH1022)**  
**Credits (Min/Max): 3/3**

A course in improvisational drama with emphasis on educational and motivational skills, games and the performing arts. Workshop participation is expected. Cross-listed with SPCH1022

**SLAE1011**  
**HISTORY OF ROCK & ROLL:SPECIAL TOPIC(PART3050A)**  
**Credits (Min/Max): 3/3**

An introduction to the early years of rock music (1950s - mid 1970s) for the non-musician. The class will include the roots of rock and roll, teen idols, the folk music craze, the British invasion, Motown, psychedelic music, singer-songwriters and the roots of metal. The history of the 50s and 60s will be highlighted by the various styles of music. Cross-Listed with PART3050A

**SLAE1012**  
**FUNDAMENTALS OF MUSIC(PART1022)**  
**Credits (Min/Max): 3/3**

A hands-on introduction to the language of music (notation, scales, melody, harmony, etc.) using recorders, percussion and listening examples from various musical genres. This class is built for the non-musician. Cross-listed with PART1022

**SLAE1025**  
**AESTHETICS OF ADVERTISING**  
**Credits (Min/Max): 3/3**

This course will be an analytical analysis of the Aesthetics of Advertising. Successful and unsuccessful advertising will be discussed in relationship to their visuals, the message that is being sent and the impact it has on the target audience. Students will explore and scrutinize the use of visual design elements and the message these elements are sending to the target audience. Students will gain an understanding of the powerful impact visuals play in persuading, informing and entertaining consumers to help brand, provide distinct product details/separation/recall and send a memorable message to a specific target audience.

**SLAE1097**

**HISTORY OF MUSICAL THEATER (PART2025)**

**Credits (Min/Max): 3/3**

A survey of musical theater and its development from its roots through the early 20th century, the Ziegfield follies, the 1920's in New York, Broadway and Hollywood in the 1930's, the golden age of musicals and movies up to and including today's musical theater. Cross-listed with PART2025

**SLDD1001**

**COMING OF AGE: FILM & LITERATURE (DD) LIT & AESTHETICS**

**Credits (Min/Max): 3/3**

This course is designed to introduce students, particularly non-English majors, to literary and cinematic criticism through the study of diverse works of literature and film. The focus of the course is twofold. First, we will consider works thematically - exploring a central issue in each term/section, such as Fantasy, Detective/Mystery, War, or Coming of Age through works that may come from various times and cultures. Second, we will investigate the works aesthetically by developing vocabularies and techniques for understanding our two major media (texts and cinema). In examining, discussing, presenting, and writing about these works, students will gain insight into the development, concerns, and significance of the genres, and more general knowledge of the theories and practices of textual and cinematic analysis. By Coming of Age, we do not mean all stories with children and adolescents in them. In fact, for any film or piece of literature to fit our course, it must show a change, sometimes call a Rite of Passage, by at least one main youthful character into a new adult/mature role and/or identity. This can be either fiction or non-fiction. The character(s) may face challenges, for example, of responsibility, danger, and/or romance. The age of the character may be from childhood into early adulthood. So it's yes to Peter Pan and Holes but no to Cocoon.

Prerequisites: ENGL1011 - COLLEGE WRITING I

**SLDD1002**

**FANTASY: FILM & LITERATURE(DD) LIT & AESTHETICS**

**Credits (Min/Max): 3/3**

This course is designed to introduce students, particularly non-English majors, to literary and cinematic criticism through the study of diverse works of literature and film. The focus of the course is twofold. First, we will consider works thematically - exploring a central issue in each term/section, such as Fantasy, Detective/Mystery, War, or Coming of Age through works that may come from various times and cultures. Second, we will investigate the works aesthetically by developing vocabularies and techniques for understanding our two major media (texts and cinema). In examining, discussing, presenting, and writing about these works, students will gain insight into the development, concerns, and significance of the genres, and more general knowledge of the theories and practices of textual and cinematic analysis. By Fantasy, we do not mean all things that are Fictional or Adventurous. Most Fiction is actually very realistic, and so is not Fantasy.

**SLDD1003**

**MYSTERY: FILM & LITERATURE(DD) LIT & AESTHETICS**

**Credits (Min/Max): 3/3**

This course is designed to introduce students, particularly non-English majors, to literary and cinematic criticism through the study of diverse works of literature and film. The focus of the course is twofold. First, we will consider works thematically - exploring a central issue in each term/section, such as Fantasy, Detective/Mystery, War, or Coming of Age through works that may come from various times and cultures. Second, we will investigate the works aesthetically by developing vocabularies and techniques for understanding our two major media (texts and cinema). In examining, discussing, presenting, and writing about these works, students will gain insight into the development, concerns, and significance of the genres, and more general knowledge of the theories and practices of textual and cinematic analysis. By Mystery, we do not mean any fiction about a crime and/or has some unresolved element(s) to it but those Mysteries that involve fictional detectives, criminals, and the investigative methods.

**SLDD1004**

**WRITING & SINGING THE BLUES: AFRICAN-AMERICAN LIT & MUSIC(DD) LIT & AESTHETICS**

**Credits (Min/Max): 3/3**

This course is designed especially for the non-English major and explores the fundamental principles of literary and cultural analysis and an overview of the African-American tradition in music: call and response, spirituals, work songs, soul, jazz, rhythm and blues, rap, and gospel music. No prior knowledge of music or literary theory is expected.

Prerequisites: ENGL1011 - COLLEGE WRITING I

**SLDD1005**

**THE BIBLE AS LITERATURE(DD) LIT & PHILOSOPHY**

**Credits (Min/Max): 3/3**

This course will explore the Hebrew and Christian Scriptures as literary texts. Students will examine the language, images, and structures of selected books of the Bible. Various approaches to Biblical study will be utilized including form and source criticism, narrative analysis, genre analysis, and rhetorical analysis. Issues to be addressed include the variety of interpretative strategies, the choice of translations, narrative and characterization strategies, the influence of the Bible on Western Tradition.

#### **SLDD1006**

##### **JESUS IN FILM & HISTORY(DD) PHILOSOPHY & HISTORY**

**Credits (Min/Max): 3/3**

The story of Jesus is told and retold in every age and culture. For more than two centuries, however, there has also been a serious project of seeking the historical Jesus. In recent times this has engaged such disciplines as history, cultural anthropology, and archeology. This course will provide the opportunity for viewing and discussing a variety of film portrayals of Jesus in comparison with the canonical gospel accounts and current historical Jesus research. Both socio-rhetorical reading of the Gospels arising from current biblical scholarship and readings of the films arising from narrative theology will be emphasized. Attention will also be given to relevant historical methods and historiography.

#### **SLDD1007**

##### **WAR: LITERATURE & FILM(DD) LIT & AESTHETICS**

**Credits (Min/Max): 3/3**

This course is designed to introduce students, particularly non-English majors, to literary and cinematic criticism through the study of diverse works of literature and film. The focus of the course is twofold. First, we will consider works thematically - exploring a central issue in each term/section, such as Fantasy, Detective/Mystery, War, or Coming of Age through works that may come from various times and cultures. Second, we will investigate the works aesthetically by developing vocabularies and techniques for understanding our two major media (texts and cinema). In examining, discussing, presenting, and writing about these works, students will gain insight into the development, concerns, and significance of the genres, and more general knowledge of the theories and practices of textual and cinematic analysis. By War, we do not mean any tale that has some conflict, fighting, or battle in it. These stories must be fictional or creative non-fiction (not a history textbook, for example)

#### **SLHS1001**

##### **MAJOR ISSUES IN MODERN U.S. HISTORY**

**Credits (Min/Max): 3/3**

This course is designed for non-History majors to study controversial historical events and issues during the past century. Students will analyze topics including the Cold War, the Civil Rights Movement, the Vietnam War, and key social issues and political crises.

#### **SLHS1002**

##### **MULTICULTURAL HISTORY OF THE U.S.**

**Credits (Min/Max): 3/3**

In this course we examine the history of different ethnic and racial immigrants in the United States; the process of ethnic assimilation into mainstream American culture; and how different groups and races have been treated by the U.S. government. In addition, we examine the reasons that ethnic and racial groups departed their own countries to emigrate here, and recent immigration experiences and changes in U.S. immigration policy.

#### **SLHS1002H**

##### **MULTICULTURAL HISTORY OF THE U.S.-HONORS**

**Credits (Min/Max): 3/3**

In the Honors section of Multi-Cultural History of the United States, we study the development of U.S. society, focusing on the role of European immigrants, African-Americans, Native Americans, Hispanic-Americans and Asian-Americans. Concepts of multicultural diversity, racism and inter-group relations are explored within a comparative historical framework. These are related to the development of social classes in general and of working-class sub-cultures in the U.S.

#### **SLHS1003**

##### **HISTORY OF THE WORLD**

**Credits (Min/Max): 3/3**

Students will examine the historical development of the world. Although the pre-modern period of history will be addressed, particular emphasis will be placed on the modern period and how industrialization has affected both developed and developing regions of the world. Special attention will also be given to methodologies related to historical anthropology, as well as economic, social, cultural and intellectual history. Questions of race, class and gender will be interwoven with an awareness of global diversity and multi-culturalism.

#### **SLLT1001**

##### **SING&PRAISE:CONTEMPORARY POETRY**

**Credits (Min/Max): 3/3**

This course is designed especially for the non-English major. It is designed to introduce students to the writing of exceptional American poets since the Second World War. This course will also emphasize fundamental principles of English as a discipline, including: attentive and generous readings of texts; the use of primary and secondary sources in interpreting texts; and analysis of both the form and content of a particular genre, in this case, poetry. No prior knowledge of contemporary American poetry is expected.

PreRequisites: ENGL1011 - COLLEGE WRITING I



**SLLT1002**  
**WORLD LITERATURE I(ENGL2021)**  
**Credits (Min/Max): 3/3**

A study of selected works in a variety of genres centered primarily around major literary movements from antiquity through the Renaissance. Cross-listed with ENGL2021

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1003**  
**SHAKESPEARE ON FILM(ENGL3021)**  
**Credits (Min/Max): 3/3**

This course is designed to introduce non-majors to literary study through viewing film adaptations of Shakespeare and reading the printed texts. By examining the relationship between the texts of the play and their film interpretations, students will examine and analyze dramatic genres central to literary study, including tragedies, comedies, histories and romances. Cross-listed with ENGL3021

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1005**  
**THIS GREAT GAME:LIT & BASEBALL**  
**Credits (Min/Max): 3/3**

The relationship between Baseball and America provides a decade-by-decade opportunity to examine prevailing American attitudes, customs, and beliefs. The game of baseball, American history, and literature will be examined in this course.

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1006**  
**THE FANTASTICAL IN LITERATURE & FILM**  
**Credits (Min/Max): 3/3**

This course is designed to introduce students, and in particular non-English majors, to literary and cinematic criticism through the study of diverse works of fantasy literature and film. The focus of the course is twofold: we will consider works both thematically - exploring central issues of monstrosity, humanity, evil and warfare - and aesthetically, developing vocabularies and techniques for understanding our two major media (texts and films). In examining, discussing, and writing about these works, students will gain insight into the development, concerns, and significance of fantasy genres, and more general knowledge of the theories and practices of textual and cinematic analysis.

**SLLT1007**  
**THE FIRE & ROSE:RELIGIOUS WORLD POETRY**  
**Credits (Min/Max): 3/3**

This course is designed especially for the non-English major. It is designed to emphasize fundamental aspects of English as a discipline, including: attentive and generous readings of texts; the use of primary and secondary sources of interpreting texts; and analysis of both the form and content of a particular genre, in this case, poetry. No prior knowledge of world religious poetry is expected.

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1008**  
**CONTEMPORARY LITERATURE (ENGL3062)**  
**Credits (Min/Max): 3/3**

This course is designed to introduce non-majors to the principles of literary and cultural criticism through the study of a range of prose fiction from the last thirty years of the 20th Century. The focus of the course is to identify and interpret the thematic and stylistic interests of Western and non-Western contemporary fictions from the period, paying special attention to the various ways of understanding or seeing (cultural, political, and psychological) which different cultures bring to the production of literature. By examining, discussing, and writing about these works, students will gain specific insight into a rapidly globalizing literary aesthetic as well as an understanding of modern critical literary analysis. Cross-listed with ENGL3062

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1009**  
**LITERATURE OF THE ENVIRONMENT**  
**Credits (Min/Max): 3/3**

In this course, students will undertake in-depth study of the fundamental principles of literary analysis through an exploration of American, British, and Native American literature concerning the physical environment and its relationship to human beings and societies. Beginning with Classical and Romantic instances of pastoral poetry, the course will trace the nineteenth-century dawning of an environmentalist consciousness and the twentieth-century legacy of literature protesting environmental degradation. The course will conclude with considerations of two contemporary developments in the tradition of environmental literature: the emergence of ecocriticism (literary criticism centered on the relationship between language and the natural world), and the rediscovery of Native American environmentalism as a model for human being in, and wardenship of, the Earth. Students will thus learn to connect literature and the study of literature to issues of significance in the present time.

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1010****WORLD LITERATURE II(ENGL2022)****Credits (Min/Max): 3/3**

A study of selected works in a variety of genres centered primarily around major literary movements from the Renaissance through contemporary literature. Cross-listed with ENGL2022

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1011****ISSUES IN AMERICAN LIT II (ENGL2039)****Credits (Min/Max): 3/3**

Literature from the time of the Civil War to Post World War II will be examined as it portrays such issues as our pluralistic society, war, death, characters caught in a limiting environment, responses to the age of anxiety, protest, evolving attitudes toward male and female identity and relationships, ethical responsibility, disenchantment, reconciliation and the celebration of the human potential. The course will also introduce basic technical elements of each genre used by American authors. Cross-listed with ENGL2039

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1012****SPECIAL TOPICS IN LITERATURE (ENGL4040)****Credits (Min/Max): 3/3**

The "Select Literature" designation covers a range of courses with varying content or "subject" matter but with the common objective of providing non-majors with an opportunity to learn the fundamental principles of literary analysis. Cross-listed with ENGL4040

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1013****ISSUES IN AMERICAN LIT I (ENGL2036)****Credits (Min/Max): 3/3**

Literature from Puritan times up to the Civil War will be examined as it portrays such issues as responses to a new environment, ecology, ethnic and sexual stereotyping, literature as didactic message or entertainment, ethical choice, pessimistic and optimistic views of human nature. The course will also introduce basic technical elements for each genre used by American authors. Cross-listed with ENGL2036

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1014****COMIC BOOKS & GRAPHIC NARRATIVE****Credits (Min/Max): 3/3**

In this course, we will explore the medium of graphic narrative or sequential art. We will study the antecedents, origins, and development of graphic narrative, the cultural contexts and significance of the medium, and the verbal and pictorial properties of the form. At the same time, we will develop sufficient proficiency in the form to produce our own graphic narratives. The course thus provides students historical, theoretical, and practical knowledge of an important and emergent form of narrative art.

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1015****STUDIES IN LITERATURE(ENGL3015):****Credits (Min/Max): 3/3**

THEATER IN THE CITY:Theater in the City is a six-week summer course, which meets on Tuesdays on campus and sees a play on Thursday at one of the city's many theaters. Summer 2012 the planned selections are Noel Coward's "Private Lives" (Pittsburgh Public Theater); Lee Hall's "The Pitman Painters" (Irish and Classical Theater); Maggie Kate Coleman's "Pop" (City Theater); Frank Lloyd Hightower's "The House That Carol Built" (Kuntu Repertory Theater); and August Wilson's "Gem of the Ocean" (Pittsburgh Playwrights at the August Wilson Theater). Cross-listed with SLLT1015 WOMEN IN LITERATURE: This course explores the novel as it has been practiced by women writers and examines specific contributions they have made to the novel. It is particularly appropriate to study women writers in the context of the novel form, since historically the rise of the novel occurs concurrently with the emergence of women writers. Each novel will be considered individually as well as in relation to its larger cultural context and to the other novels under study. Authors generally include Mary Wollstonecraft, Virginia Woolf, Kate Chopin, Charlotte Perkins Gilman, Jean Rhys, Alice Walker, Toni Morrison, Amy Tan, Sue Monk Kidd, Linda Hogan, and Katherine Stockett. Cross-listed with SLLT1015 Topics from world literature involving various literary genres and themes. Possible semester topics include: Black Literature, Contemporary Literature, Women in Literature, and Biblical Themes in Literature.

PreRequisites: ENGL1011 - COLLEGE WRITING I

**SLLT1029****THEATER IN THE CITY (ENGL3047)****Credits (Min/Max): 3/3**

This course is designed to teach students the basic components of theater, and to experience various plays being performed in Pittsburgh. It will also examine the history of many of the local theaters in the city. Cross-listed with ENGL3047

**SLRS1002**  
**WORLD VIEWS & IDENTITY**  
**Credits (Min/Max): 3/3**

This course provides an introduction to philosophy and philosophical thinking through an in-depth study of the fundamental philosophical disciplines of metaphysics and ontology. This includes an examination of the relationship between cultural traditions and their views on the nature of reality, or Being. An essential component of these worldviews entails perspectives regarding individual or personal identity and meaning, that is, issues about the nature of self. This analysis of metaphysics and ontology will be grounded primarily upon the study of critical texts.

**SLRS1003**  
**WORLD RELIGIONS(RELS1003)**  
**Credits (Min/Max): 3/3**

This course examines the historical development together with the religious beliefs and practices of the major religions of the world including Hinduism, Buddhism, Jainism Sikhism, Confucianism, Taoism, Shinto, Judaism, Christianity, Islam and Zoroastrianism. The teachings of each religion regarding the Absolute, the world, the nature of humans, the problem facing humans, the solution of the problem for humans, Community and Ethics, Rituals and Symbols, and what happens after death will be studied. The course also includes an examination of the beginnings of religion in human history as well as the characteristics of tribal and national religions. Cross-listed with RELS1003

**SLRS1005**  
**CHRISTOLOGY(RELS2014)**  
**Credits (Min/Max): 3/3**

A systematic study of the beliefs of the church in the person of Jesus as reflected in Scripture and the early church councils and a survey of contemporary Christological teaching. Cross-listed with RELS2014

**SLRS1006**  
**OLD TESTAMENT(RELS1001)**  
**Credits (Min/Max): 3/3**

This course will introduce students (non religious studies majors) to contemporary Old Testament scholarship. The 47 books of the Old Testament were composed over 800 years beginning in the 10th c. B.C. and extending to the 2nd c. B.C. To fully appreciate and correctly interpret any O.T. book, students must be aware of the historical developments in Israel as well as in the surrounding Near East during the period in which a book was composed. Students will also be instructed in the basic tenets of textual criticism, source criticism, form criticism, and redaction criticism as these pertain to the books of the Old Testament. Cross-listed with RELS1001

**SLRS1008**  
**PARABLES AS LITERATURE**  
**Credits (Min/Max): 3/3**

In this course students will study the parables of the Gospel tradition, their roots in the rabbinical schools, cultural settings and parallels. The course will also examine the form through both literary and cinematic comparisons in contemporary culture.

**SLRS1009**  
**LITERATURE OF THE GOSPELS**  
**Credits (Min/Max): 3/3**

This course is an introduction to the four Gospels of Matthew, Mark, Luke and John. It will begin with an examination of textual criticism, source criticism, form criticism, and redaction criticism as these disciplines impact on the Gospels as literature.

**SLRS1011**  
**NEW TESTAMENT(RELS1002)**  
**Credits (Min/Max): 3/3**

A general introduction to the New Testament and overview of the historical, religious and cultural milieu in which these Scriptures originated. Cross-listed with RELS1002

**SLRS1012**  
**INTRO TO PHILOSOPHY(PHIL1021)**  
**Credits (Min/Max): 3/3**

This is a survey course that presents the principal philosophical problems, questions, and systems. Consideration is given to representative schools of philosophy, especially the foundational teachings in Plato and Aristotle. The relationship of philosophy to other disciplines, arts and sciences is examined. Cross-listed with PHIL1021

**SLRS1013**  
**ETHICS(PHIL2026)**  
**Credits (Min/Max): 3/3**

A survey of historical and contemporary responses to significant moral problems encountered in the Christian life. Topics include conscience, racism, peace and war, ecology, population control, economic justice and capital punishment. Cross-listed with PHIL2226

**SLRS1014****WOMEN & RELIGION(RELS2020)****Credits (Min/Max): 3/3**

A survey of woman's place in society, past and present, as it has been and is affected by religious teachings, laws and customs and examination of the attitudes toward women in the Hebrew and Christian Scriptures, in the writing of the early church fathers, the Protestant Reformers, and in the current religious structures of Catholics, Protestants, and Jews. Cross-listed with RELS2020

**SLSC1001****INTRO TO CHEMISTRY: BRAVING THE ELEMENTS****Credits (Min/Max): 3/3**

This course, designed especially for the non-science major, explores the fundamental aspects of chemistry in a variety of familiar and often newsworthy contexts. Applications to environmental problems, drug design, plastics and polymers, and alternative energy sources are some of the facets of this important science. A variety of activities will allow students to investigate chemical phenomena. No prior knowledge of chemistry is expected.

**SLSC1002****INTRO TO BIOLOGY: BUGS & BREW****Credits (Min/Max): 3/3**

This course is an introduction to the biological sciences for the non-science major that presents fundamental principles of biology through a study of human interactions with microbes, such as bacteria and viruses. Topics will include an explanation of what microbes are, how they are similar to and different from other living things, where and how they live, and the roles of microbes in making food and beverages, in biotechnology for agriculture, medicine, or pollution control, and in human diseases. Discussion of current topics from the news and hands-on discovery activities will be included.

**SLSC1005****INTRO TO COMP SCI: BITS, BYTES & BEYOND****Credits (Min/Max): 3/3**

This course is designed specially for the non-Computer Science major. It is designed to emphasize fundamental aspects of Computer Science as a discipline. Students will be introduced to what a computer is, how it works, and how we interface with it. Attention is given to analyzing our thought processes during problem solving and developing algorithms for later use in a program. No prior knowledge of computer science is expected.

**SLSC1006****INTRO TO PHYS SCIENCE: MOTION, MATTER & MIND****Credits (Min/Max): 3/3**

This course is designed for anyone interested in experiencing first-hand the process of the scientific inquiry. In this process students and the professor will pose investigable questions about some physical phenomena. Students will then use the analysis of observations from experiments to develop an understanding of these physical concepts. This understanding will develop through individual, small group and whole class investigation and discussion. As a final stage in this cycle, connections will be made to the classical laws and principles of physics and chemistry, which govern these phenomena.

**SLSC1006H****INTRO TO PHYS SCIENCE: MOTION, MATTER & MIND-HONORS****Credits (Min/Max): 3/3**

This course is designed for anyone of the honor program who is interested in experiencing first-hand the process of the scientific inquiry and modern concepts of physics. In this process students and the professor will pose investigable questions about some physical phenomena which you observe everyday and not everyday. The student will then observe and/or conduct hand-on experiments to understand these physical concepts more. In addition, each student will be assigned extra weekly assignments and an individual term project for completion of the course.

**SLSC1007****CSI-CHEMISTRY: CHEMICAL PRINCIPLES IN CRIMINALISTICS****Credits (Min/Max): 3/3**

This course provides an introduction to the principles of chemistry within the context of forensic science applications. In particular, study of atomic and molecular structure, bonding, energy changes, and chemical reactions will provide the foundation for examining a variety of analytical tools as they are used in the solving of crimes. The course includes an introduction to spectroscopy and chromatography, as well as traditional wet chemistry methods. While this is not a standard laboratory course, students will participate in a variety of laboratory activities.

**SLSC1008****PRINCIPLES OF CHEMISTRY I (CHEM1007)****Credits (Min/Max): 3/3**

An introduction to the basic principles of general, organic and biochemistry. The principles are related to living systems including the properties and metabolism of proteins, carbohydrates, lipids and nucleic acids. Lecture and laboratory course. *Cross-listed with CHEM1007*

**SLSC1009****INTRO TO BIOLOGY:CSI****Credits (Min/Max): 3/3**

This course is an introduction to the biological sciences for the non-science major that presents fundamental principles of biology through a study of crime scene investigations and forensic biology. Topics will include the scientific method of investigation; the nature of biological samples including important structures and functions in cells, tissues and organisms; the structure, functions and analysis of DNA; the use of DNA and other biological evidence in forensics, including issues related to inheritance and population genetics; and the study of biological evidence in context with the natural environment where it is found. Discussion of current topics from the news and hands-on discovery activities will be included.

**SLSC1010****THE NATURAL SCIENCES(NSCI1001)****Credits (Min/Max): 3/3**

An introduction to the basic concepts of biology, chemistry and physics, which stresses practical applications. Topics include survey of the fundamental concepts of atoms and molecules as the basic building blocks of matter, an overview of the life sciences with an emphasis on human biology and a discussion of the principles underlying common physical phenomena. Open to non-science majors.

**SLSC1011****LIFE SCIENCE(BIOL1001)****Credits (Min/Max): 3/3**

An introductory course directed toward the development of an answer to the question: What is life? The course explores various life processes and the human person's position in the total scheme. Emphasis is placed on current scientific discoveries. This course is not open to science majors. Cross-listed with BIOL1001

**SLSC1012****INTRO TO COMPUTER SCIENCE (CSCI1002)****Credits (Min/Max): 3/3**

This course is an introduction to the field of computer science. A scientific foundation of many aspects of CS will be developed upon which more advanced CS courses will build. Topics include: computer design, computer programming, information processing, algorithm design, operating systems, software engineering, and artificial intelligence. Cross-listed with CSCI1002

**SLSO1002****INTERNATIONAL JUSTICE SYSTEMS****Credits (Min/Max): 3/3**

This select social/cultural systems course familiarizes the student with a variety of justice systems found throughout the world. Based on history, culture, and a variety of other influences, the justice system of various countries reflect distinctive national priorities, political influences, and forms of government. The debate concerning due process versus crime control is viewed from the international perspective.

**SLSO1004****RACE & ETHNICITY(SOCL1034)****Credits (Min/Max): 3/3**

A study of the social relationships of racial, ethnic, religious and other minority groups with emphasis on personal, cultural and social development. Cross-listed with SOCL1034

**SLSO1006****RACE, CLASS & GENDER: INTRO TO SOCIOLOGY(SOCL1021)****Credits (Min/Max): 3/3**

This course is an introduction to the study of society through the critical analysis of social relations, behavior, and organization. It is designed to facilitate students to develop a broad knowledge of how social structures and human behavior influence each other, as well as to identify the issues that arise from such interactions. In order for students to critically analyze contemporary social issues and problems, such discussions will focus along the dimensions of race, class, and gender. No prior knowledge of sociology is expected. Cross-listed with SOCL1021

**SLSO1007****GLOBAL SOCIAL PROBLEMS(SOCL1023)****Credits (Min/Max): 3/3**

This course is a study of current social problems that take place across the globe. It emphasizes the application of sociological concepts to the critical analysis of social issues and problems in contemporary societies throughout the world, including the U.S. Cross-listed with SOCL1023

**SLSO1008****HUMAN COMMUNICATION(CMET1001)****Credits (Min/Max): 3/3**

In this course the student examines human, verbal, non-verbal and visual communication. Through an interactive classroom the student will combine the theory and definitions of the text with their experience to clarify and understand the concepts that make up human communication. In the classroom, writing, making presentations, working in groups, solving problems and applying creativity to the concepts of communication will be some of the ways the students learn and reinforce the subject matter. Written papers, research and computer-mediated-communication further reinforce the concepts of the course and serve as a means of evaluation of the student's understanding and absorption of the material. Cross-listed with CMET1001

#### **SOCL1021**

##### **RACE, CLASS & GENDER: INTRO TO SOCIOLOGY(SLSO1006)**

**Credits (Min/Max): 3/3**

This course is an introduction to the study of society through the critical analysis of social relations, behavior, and organization. It is designed to facilitate students to develop a broad knowledge of how social structures and human behavior influence each other, as well as to identify the issues that arise from such interactions. In order for students to critically analyze contemporary social issues and problems, such discussions will focus along the dimensions of race, class, and gender. No prior knowledge of sociology is expected. Cross-listed with SLSO1006

#### **SOCL1023**

##### **GLOBAL SOC.PROBLEMS(SLSO1007)**

**Credits (Min/Max): 3/3**

This course is a study of current social problems that take place across the globe. It emphasizes the application of sociological concepts to the critical analysis of social issues and problems in contemporary societies throughout the world, including the US. Cross-listed with SLSO1007

#### **SOCL1034**

##### **RACE & ETHNICITY(SLSO1004)**

**Credits (Min/Max): 3/3**

A study of the social relationships of racial, ethnic, religious and other minority groups with emphasis on personal, cultural and social development. Cross-listed with SLSO1004

#### **SOCL2008**

##### **SOCIOLOGY OF WORK & OCCUPATIONS**

**Credits (Min/Max): 3/3**

Work and occupations are examined in historical and contemporary contexts. Emphasis will be placed on the characteristics of professions and the attempts of occupations to professionalize. Focus will be on the macro level (the effects of advancements in technology, bureaucratization and unionization on the division of labor), the microlevel (job satisfaction and alienation), and on the interface between macro and micro levels (do individuals of equal ability have equal access to prestige careers regardless of race, ethnicity, gender, age, or other attributes).

#### **SOCL2016**

##### **POLICE & SOCIETY(CRIM2016)**

**Credits (Min/Max): 3/3**

This course reviews current issues and problems in law enforcement and interrelations with the society-at-large and cultural/ethnic sub-groups. It examines informal exercise of police authority or force, governmental/agency policies, legal requirements, role demands and conflicts experienced by police officers, and the norms of the police sub-culture. Cross-listed with CRIM2016

PreRequisites: CRIM1001 - INTRODUCTION TO CRIMINAL JUSTICE

#### **SOCL2022**

##### **SPORTS & GLOBALIZATION**

**Credits (Min/Max): 3/3**

Using sociological theories and concepts, this course analyzes how society defines and organizes sports. This course also looks at how sports as a (local and globalized) social activity influences important aspects of our lives such as family, education, politics, the economy, media, and religion. It also examines how sports participation affects our ideas about, among other things, gender, class, ethnicity, conformity, and violence.

#### **SOCL2030**

##### **JUVENILE DELINQUENCY(CRIM2030)**

**Credits (Min/Max): 3/3**

This course will offer an analysis of Juvenile Delinquency and the juvenile justice system. It will examine the theories of the causes of juvenile crime and the processes of the juvenile justice system. Cross-listed with CRIM2030

#### **SOCL2038**

##### **WEALTH, POWER, & PRESTIGE**

**Credits (Min/Max): 3/3**

The course presents a study of the causes and consequences of political, economic and social inequality. The systematic ranking of individuals and aggregates is analyzed. Institutional and non-institutional determinants of inequality are examined so as to understand the distribution of wealth, status and prestige in society.

**SOCL2040**  
**FOUNDATION OF SOCIAL THOUGHT**  
**Credits (Min/Max): 3/3**

The course examines sociological theories, with emphasis on the works of Durkheim, Marx, Weber, and G.H. Mead and other major contributions to sociological thought.

**SOCL2043**  
**SOCIOLOGY OF MENTAL HEALTH**  
**Credits (Min/Max): 3/3**

An introduction to the field of sociological practice. Provides an understanding of micro and macro sociological theory and how it is used to assess, analyze, and diagnose human problems. Introduces students to casework and problem solving with small groups, organizations, and families. Acquaints students with the broad range of professional opportunities for the sociological practitioner.

**SOCL2045**  
**ISLAM IN THE WORLD (HIST2045/POLI2045)**  
**Credits (Min/Max): 3/3**

In this course, the basic beliefs of Islam are reviewed, along with a brief history of Islam's overall development and its impact on the world and on various civilizations in different global regions. Islam's internal sects are analyzed, and its political impact on current politics in the world is explored. The role of U.S. foreign policy in dealing with the recent rise of Islam is also analyzed. Cross-listed with HIST/POLI2045

**SOCL2061**  
**SOCIAL GERONTOLOGY**  
**Credits (Min/Max): 3/3**

A general introduction to social gerontology with emphasis upon the normal aspects of aging. Review of current hypotheses and findings concerning the aging processes are addressed.

**SOCL2062**  
**HUMAN SERVICES IN MODERN SOCIETY**  
**Credits (Min/Max): 3/3**

A study of the role of social services in contemporary society. This course is designed to assist students in exploring theories, practices and careers in the helping professions.

**SOCL2070**  
**CULTURE & HUMAN SOCIETIES**  
**Credits (Min/Max): 3/3**

Sociological study of what we mean by culture is taken and critically applied to the discussion of global-historical transformations in human social development, from the period of simple societies to the present age of complex, industrial, and globalized societies.

**SOCL3002**  
**PROBLEM PERSPECTIVES IN AGING**  
**Credits (Min/Max): 3/3**

This course has a social problem orientation. The material deals with the major unmet needs of older people. The approach focuses upon the current status of older people in American society, identifies the deficiencies in particular areas and examines the resources available to the aged to deal with specific problems.

**SOCL3004**  
**HEALTH, MEDICINE AND SOCIETY**  
**Credits (Min/Max): 3/3**

The study and analysis of the health care system, including the definitions and behaviors in health and disease, the types and roles of practitioners and the forms and problems of health care delivery. Contemporary issues in American health care are examined.

**SOCL3008**  
**SOCIOLOGY OF WORK & OCCUPATIONS**  
**Credits (Min/Max): 3/3**

Work and occupations are examined in historical and contemporary contexts. Emphasis will be placed on the characteristics of professions and the attempts of occupations to professionalize. Focus will be on the macro level (the effects of advancements in technology, bureaucratization and unionization on the division of labor), the microlevel (job satisfaction and alienation), and on the interface between macro and micro levels (do individuals of equal ability have equal access to prestige careers regardless of race, ethnicity, gender, age, or other attributes).

**SOCL3011**  
**RESEARCH METHODS(INST3011)**  
**Credits (Min/Max): 3/3**

This course examines major research methods. The student will be exposed to the development and evaluation of research design and conclusions, conducting of research, preparation of research papers and ethics in research. The emphasis will be on survey methods, participant observation and ethnographic research. Cross-listed with INST3011

PreRequisites: MATH1040 - PROBABILITY & STATISTICS

### **SOCL3020**

#### **DEATH & DYING(PSYC3020)**

**Credits (Min/Max): 3/3**

This course is a topical overview of some of the diverse areas of inquiry grouped under the general heading death and dying. The basic purpose of this course is to help students understand grief, loss, dying, and death-both as an objective fact and as it relates to their own personal experiences-and to apply this understanding to their common experiences. The social, cultural, spiritual, emotional, and intellectual dimensions of death and dying will be examined from an interdisciplinary, but mostly social psychological and sociological perspective with the goal of enhancing the meaning of life and living. Cross-listed with PSYC3020 .

PreRequisites: SOCL1021 - RACE, CLASS & GENDER: INTRO TO SOCIOLOGY(SLSO1006)

### **SOCL3025**

#### **SOCIAL CHANGE & DEVELOPMENT**

**Credits (Min/Max): 3/3**

The exploratory study of social change and its impact on the social institutions of contemporary society. The course examines various theories, processes and areas of social change and presents an overview of the social effects of modernization on non-industrialized societies.

### **SOCL3026**

#### **WOMEN IN AMERICAN SOCIETY**

**Credits (Min/Max): 3/3**

This course is an introduction to the field of women's studies that focuses on the significance of gender in shaping the culture, society, and influence of the United States. Drawing upon a diverse set of theories, methods, and approaches from the social sciences, this course focuses primarily on the interrelated dynamics of gender at both the individual and societal levels in the United States, although we will view this country from both a comparative and an international perspective, showing how gender-related social and cultural phenomena vary across countries. Among the topics covered are cultural norms and values, socialization, interpersonal behavior, strategies of power and influence, gender-based violence, sexuality and reproduction, and social institutions such as the family, workplaces, government, education, religion and the media.

### **SOCL3027**

#### **FAMILY RELATIONS**

**Credits (Min/Max): 3/3**

A sociological analysis of the family with emphasis on historical trends and contemporary family life in the United States. The study includes family relationships and functions, family disorganization and change, with an overview of the family as a major social institution.

### **SOCL3029**

#### **SOCIAL PSYCHOLOGY(PSYC/CMET3029)**

**Credits (Min/Max): 3/3**

Social psychology is the study of human behavior as it is shaped by the psychosocial environment. Topics include person perception, small group interaction, theories and methods of attitude change, interpersonal attraction, conformity, aggression, prejudice, persuasion, altruism and prosocial behavior. Cross-listed with PSYC/CMET3029

PreRequisites: PSYC1021 - INTRO TO PSYCHOLOGY

### **SOCL3030**

#### **THEORIES OF CRIMINAL DEVIANCE (CRIM3030)**

**Credits (Min/Max): 3/3**

An examination of the etiology and major theories of criminality, with special reference to the rational choice, routine activity, biological and psychosocial theories of deviance. This course will examine criminal deviance by analyzing both criminal and victim populations, with particular emphasis on crime typology and the analysis of criminal behavior. The responses of the Criminal Justice System and private security experts to criminal behavior from situational crime prevention techniques to correctional treatment methods are explored and discussed. Cross-listed with CRIM3030

PreRequisites: ENGL1012 - COLLEGE WRITING II

### **SOCL3031**

#### **RELIGION & SOCIETY**

**Credits (Min/Max): 3/3**

An analytical presentation of religion as a social institution emphasizing the function of religion in society and its relationship to the conflict and change that characterize modern American life.



**SOCL3036**  
**SOCIOLOGY OF ADDICTIONS**  
**Credits (Min/Max): 3/3**

A study of the causes and consequences of addictions. The relationship of public policy to addictions in society, the family, and the workplace is analyzed. Addictions are viewed as ingestive (alcohol, drugs, eating disorders) and/or behavioral (gambling, sexual, workaholism). Societal responses are explored.

**SOCL3037**  
**VICTIMS OF ABUSE & NEGLECT**  
**Credits (Min/Max): 3/3**

This course addresses the social and psychological conditions, which give rise to the physical abuse of children and adults. The principal focus is an examination of child abuse and neglect, battered spouses, victims of rape and assault and victims in institutions. The effects on the individual and possible societal responses are also explored.

**SOCL3039**  
**POLITICS & SOCIETY(POLI3039)**  
**Credits (Min/Max): 3/3**

The course is designed to familiarize the student with the social bases of political power. Politics is viewed as a process in relation to the social and economic structures, which influence its direction. A consideration of the effects which politics has on these structures is also offered. A detailed analysis of the primacy of politics in the 20th century is included. Cross-listed with POLI3039

**SOCL3040**  
**ETHNIC CONFLICT(POLI3040)**  
**Credits (Min/Max): 3/3**

In this course we examine why ethnic groups sometimes get along very well, but other times engage in conflict. We query: What are the political and social origins of ethnic conflicts in various parts of the world? Do ethnic conflicts differ in different world regions? What national and international policies encourage ethnic conflict? How can we encourage ethnic groups to pursue peaceful accommodations? Cross-listed with POLI3040

**SOCL3041**  
**CITIES & GLOBALIZATION**  
**Credits (Min/Max): 3/3**

This course examines the social dynamics of urbanization, urban social structure, and urban development. It analyzes, through various theories of urban sociology, the city as a form of social organization and as centers of economic and political processes. It also looks at how globalization has impacted various cities around the world in terms of their growths and declines.

**SOCL3048**  
**COURTS & SOCIAL POLICY(CRIM3048)**  
**Credits (Min/Max): 3/3**

An analysis of the interrelationship between law and society is presented. the functions, methods and theories of legal systems are covered. An assessment of the determinants and consequences of legal decisions is also presented. Cross-listed with CRIM3048

**SOCL3050**  
**EDUCATION & SOCIETY**  
**Credits (Min/Max): 3/3**

This course is a critical analysis of education as a social institution. It looks at the interactive relations between education and the social dimensions of class, race, ethnicity, and gender, both in the US and in selected countries around the world.

**SOCL3051**  
**DEVELOPMENT IN SOUTHEAST ASIA (HIST/POLI3051)**  
**Credits (Min/Max): 3/3**

This course looks at the history of social, political and economic development of Southeast Asia, excluding Indochina, and focusing primarily on Indonesia, Malaysia, and the Philippines. It will discuss the contingent and dependent nature of development of these countries under the larger framework of global capitalism, and how such development affects the national historical experiences of these countries. Cross-listed with HIST/POLI3025

**SOCL3081**  
**ENVIRONMENT & SOCIETY**  
**Credits (Min/Max): 3/3**

This course is designed to provide an approach to study and analyze the interactions between society and the environment, and the political economic impacts of environmental problems. Focus will be on both the social causes of and social responses to various environmental problems, at the local, national, and global levels.

**SOCL3082****SOCIAL MOVEMENT & RESISTANCE (POLI3082)****Credits (Min/Max): 3/3**

This course examines the origin, growth, and dynamics of social movements as forms of social protest and resistance against state and global injustices. Discussions include case studies of various social and political groups, non-government organizations, and liberation and revolutionary movements in the US and throughout the world. Cross-listed with POLI3082

**SOCL4050****SPECIAL TOPICS IN ADVANCED SOCIOLOGY****Credits (Min/Max): 3/3**

A collection of courses covering a broad range of topics in advanced sociology, offered according to student need and interest. The precise title is announced during registration period for any given term.

**SOCL4051****SOCIOLOGY-INTERNSHIP I****Credits (Min/Max): 1/6**

A field experience in a social institution. The students are given the opportunity to integrate their theoretical knowledge with practical application under the guidance of professionals at the particular institution where they are assigned.

**SOCL4052****SOCIOLOGY-INTERNSHIP II****Credits (Min/Max): 1/6**

A field experience in a social institution. The students are given the opportunity to integrate their theoretical knowledge with practical application under the guidance of professionals at the particular institution where they are assigned.

**SOCL4055****SENIOR SEMINAR IN SOCIOLOGY****Credits (Min/Max): 3/3**

A course designed to assist students in culminating and synthesizing their study of sociology on the undergraduate level through independent readings, research and class discussion. Required for sociology majors.

**SOCL4056****DIRECTED RESEARCH****Credits (Min/Max): 1/4**

Individual research supervised by a full-time faculty member.

**SOCL4057****SOCIOLOGY-INDEPENDENT STUDY****Credits (Min/Max): 1/3**

This course is limited to those few students who have demonstrated an unusual level of ability and an intense commitment to a particular area.

**SPAE3005****SPANISH GRAMMAR AND COMPOSITION****Credits (Min/Max): 3/3**

This course is structured to enhance the knowledge of grammar and the reading and writing skills of students who have already achieved an intermediate level or oral, written and reading proficiency in Spanish as measured on the ACTFL/ETS scale. Students will learn correct grammatical construction through literary readings and discussion, intensive vocabulary study, intensive study of grammar points, and composition practice.

PreRequisites: MLSP3002 - ADVANCED SPANISH LANGUAGE & CULTURE II

**SPAE3010****ADVANCED GRAMMAR****Credits (Min/Max): 3/3**

Using texts written by contemporary Spanish and Hispanic authors, students will increase their knowledge of vocabulary including idiomatic expressions and they will review more complex grammatical structures. Stylistics will also be addressed.

PreRequisites: MLSP3002 - ADVANCED SPANISH LANGUAGE & CULTURE II

**SPAE3015****APPLIED HISPANIC LINGUISTICS (MLSP3015)****Credits (Min/Max): 3/3**

This course introduces the student to general linguistic theory and its application to the problems which teachers face in the foreign language classroom. Students will discover practical resolutions to problems encountered in the presentation of linguistic material. A study of the sound system of Spanish and training in native-like Spanish pronunciation will also be incorporated into the course.

PreRequisites: MLSP3005 - ADVANCED SPANISH GRAMMAR & COMPOSITION

### **SPAE3030**

#### **SURVEY OF SPANISH LITERATURE**

**Credits (Min/Max): 3/3**

Using texts written by contemporary Spanish and Hispanic authors, students will increase their knowledge of vocabulary including idiomatic expressions. Complex grammatical structures will be reviewed and practiced in written form. Stylistics will also be addressed. This course will be conducted in Spanish to assist students in maintaining their proficiency goals.

PreRequisites: MLSP3005 - ADVANCED SPANISH GRAMMAR & COMPOSITION

### **SPAE3040**

#### **SURVEY OF LATIN AMERICAN LIT**

**Credits (Min/Max): 3/3**

A study of the major literary periods, trends and genres in Spanish American literature from pre-Columbian times through the 20th century from an historical perspective. Literary texts to be read and discussed include representative selections of key historic texts and literary figures from each major literary period.

PreRequisites: MLSP3005 - ADVANCED SPANISH GRAMMAR & COMPOSITION

### **SPCH1001**

#### **MODERN PUBLIC SPEAKING**

**Credits (Min/Max): 3/3**

Intended to develop an understanding of and facility in the preparation, organization, delivery and criticism of speeches.

### **SPCH1003**

#### **ORAL INTERPRETATION**

**Credits (Min/Max): 3/3**

A course in the theory and practice of the interpretation of prose, drama and poetry.

### **SPCH1022**

#### **CREATIVE DRAMATICS(SLAE1010)**

**Credits (Min/Max): 3/3**

A course in improvisational drama with emphasis on educational and motivational skills, games and the performing arts. Workshop participation is expected. Cross-listed with SLAE1010

### **SPCH2002**

#### **CONTEMP COMM THROUGH DISCUSSION**

**Credits (Min/Max): 3/3**

Intended to acquaint the student with basic concepts essential for effective communication in small groups, to increase the student's ability to examine and evaluate small group interactions and to develop communication skills through participation in small group discussions.

### **SPCH2023**

#### **INTRODUCTION TO THEATRE**

**Credits (Min/Max): 3/3**

An aesthetic and practical study of theater that examines various styles and forms of drama and theatrical productions.